

APPENDIX A
PUBLIC INVOLVEMENT AND AGENCY CORRESPONDENCE

Distribution List for Draft EIS

Distribution List for Draft EIS

The Honorable Alberta Anderson, Georgia House of Representatives, P.O. Box 886,
Waynesboro, GA 30830

The Honorable Carl Anderson, South Carolina House of Representatives, P.O. Box 694,
Georgetown, SC 29442

The Honorable Liston D. Barfield, South Carolina House of Representatives, P.O. 1734, Conway,
SC 29528

Robert Barker, AirStar, 990 Ben Epps Dr., Athens, GA 30605

The Honorable John Barrow, United States House of Representatives, 699 Broad St., Ste. 1200,
Augusta, GA 30901

Deborah Bennett, Millen News, P.O. Box 909, Millen, GA 30442

William P. Blanchard, Waynesboro, GA 30830

The Honorable Lester P. Branham, Jr., South Carolina House of Representatives, 118
Lockewood Dr., Lake City, SC 29560

The Honorable Henry Brown, United States Senate, 1800 N. Oak St., #C, Myrtle Beach, SC
29577

Byron Burt, City of Louisville, P.O. Box 527, Louisville, GA 30434

Jerry N. Cadle, P.C., Attorney at Law, P.O. Box 68, Swainsboro, GA 30401

The Honorable Saxby Chambliss, United States Senator, 2 E. Bryan St., Ste. 620, Savannah, GA
31401

The Honorable Ray Cleary, South Carolina Senate, 4349 Hunters Wood Dr., Murrells Inlet, SC
29576

The Honorable James Clyburn, United States Senate, 1703 Gervais St., Columbia, SC 29201

The Honorable Marty Coates, South Carolina House of Representatives, P.O. Box 3656,
Florence, SC 29502

Wayne Cowart, GCP, 684 Charlton Rd., Millen, GA 30442-7706

James K. Craig, Goose Creek, SC 29445

Stephen Creech, Military Affairs Committee, c/o Creech, Roddey, Watson Insurance, 25 E.
Calhoun St., Sumter, SC 29150-4315

William A. Crider, Jr., Metter Airport Authority, P.O. Box 398, Stillmore, GA 30464

Horace Danielle, Washington County Commission, P.O. Box 271, Sandersville, GA 31082

Nelson A. Danish, Waynesboro, GA 30830-0034

Phil Degarmo, U.S. Fish and Wildlife Service Ecological Field Office, 176 Croghan Spur Rd., Ste.
200, Charleston, SC 29407-7558

James M. Dixon, Burke County Board of Commissioners, 602 N. Liberty St., Waynesboro, GA
30830-1417

Barry A. Doublestein, Loganville, GA 30052

The Honorable Dick Elliott, South Carolina Senate, 401 Sea Mountain Hwy., North Myrtle
Beach, SC 29582

Robert Ellison, Skytech Aviation Maintenance, 23 Airport Rd., Swainsboro, GA 30401

Todd Falstad, Lexington, SC 29072

Wally Gallian, The Forest-Blade, 416 W. Morning St., Swainsboro, GA 30401

Glascoc County Commissioners, 62 E. Main St., Gibson, GA 30810

The Honorable Larry Grooms, South Carolina Senate, 131 Indian Field Dr., Bonneau, SC 29431

The Honorable Nelson Hardwick, South Carolina House of Representatives, 714 Cedar Dr. N.,
Surfside Beach, SC 29575

The Honorable C. Alexander Harvin, III, South Carolina House of Representatives, P.O. Box 266, Summerton, SC 29148

James Henry, Jenkins County Board of Commissioners, P.O. Box 797, Millen, GA 30442

The Honorable Jack Hill, Georgia State Senate, P.O. Box 486, Reidsville, GA 30453

Gardner Hobbs, Jefferson County Commissioner, 217 E. Broad St., Louisville, GA 30434-1621

Julie Holling, Heritage Trust Program, South Carolina Department of Natural Resources, P.O. Box 167, Columbia, SC 29202

Pat Hooks, Regional Director, National Park Service, 1924 Building, 100 Alabama St. SW, Atlanta, GA 30303

The Honorable Sistie Hudson, Georgia House of Representatives, P.O. Box 58, Sparta, GA 31087

The Honorable Johnny Isakson, United States Senator, One Overton park, 3625 Cumberland Blvd., Ste. 970, Atlanta, GA 30339

Barbara Jackson, Georgia State Clearinghouse, 270 Washington St. SW, 8th Fl., Atlanta, GA 30334

The Honorable Joseph H. Jefferson, Jr., South Carolina House of Representatives, 1375 Colonel Maham Dr., Pineville, SC 29468

Walter Johnson, Division of Aeronautics, South Carolina Department of Commerce, P.O. Box 280068, Columbia, SC 29228-0068

The Honorable Kenneth Kennedy, South Carolina House of Representatives, 140 Society St., Greeleyville, SC 29056

Thurmon Kent, Jr., Millen, GA 30442

The Honorable John Land, III, P.O. Box 138, Manning, SC 29102

The Honorable Bob Lane, Georgia House of Representatives, 205 Aldred Ave., Statesboro, GA 30458

Advel Langly, Lake City News and Post, P.O. Box 429, Lake City, SC 29560

The Honorable Hugh K. Leatherman, Sr., South Carolina Senate, 1817 Pineland Ave., Florence, SC 29501

The Honorable Phil Leventis, South Carolina Senate, P.O. Box 1592, Sumter, SC 29151-1592

The Honorable Jimmy Lord, Georgia House of Representatives, P.O. Box 254, Sandersville, GA 31082

Marion Lowder, Lake City Municipal Airport, P.O. Box 1329, Lake City, SC 29560

Jean Manheimer, Fiscal Manager, Grant Services, State Application Identifier: SC040804-16, Office of State Budget, 1201 Main St., Ste. 950, Columbia, SC 29201

The Honorable Jim Marshall, United States House of Representatives, 682 Cherry St., Ste. 300, Macon, GA 31201

James McAfee, Jr., Johnson County, P.O. Box 269, Wrightsville, GA 31096-0269

The Honorable Joseph T. McElveen, Mayor of Sumter, P.O. Box 1449, 21 N. Main St., Sumter, SC 29251-1449

The Honorable J. Yancey McGill, South Carolina Senate, 601 Longstreet St., Kingstree, SC 29556

Chris McIntosh, Mount Pleasant, SC 29464

Robert H. McMillan, Jr., Agricultural Aviation, Inc., 377 Airport Rd., Waynesboro, GA 30830

The Honorable Vida Miller, South Carolina House of Representatives, P.O. Box 3157, Pawleys Island, SC 29585

The Honorable Greg Morris, Georgia House of Representatives, P.O. Box 1749, Vidalia, GA 30475

The Honorable Joseph Neal, South Carolina House of Representatives, P.O. Box 5, Hopkins, SC 29061

The Honorable Charlie Norwood, United States House of Representatives, 1054 Classen Rd., Ste. 316, Augusta, GA 30907

Tom Olsen, City Hall – Sumter Base Defense, 21 N. Main St., Sumter, SC 29150

John E. Parrish, Jr., Bulloch County Board of Commissioners, 115 N. Main St., P.O. Box 347, Statesboro, GA 30459

The Honorable Larry Parrish, Georgia House of Representatives, 224 W. Main St., Swainsboro, GA 30401

Donald E. Perkins, Residents of the Perkins Community, P.O. Box 10, Perkins, GA 30822

The Honorable DuBose Porter, Georgia House of Representatives, P.O. Drawer B, CSS, Dublin, GA 31040

The Honorable J.B. Powell, Georgia Senate, 228 Church St., Blythe, GA 30805

Ezra Price, Emanuel County Board of Commissioners, P.O. Box 787, Swainsboro, GA 30401-3554

The Honorable Luke A. Rankin, Sr., South Carolina Senate, 201 Beaty St., Conway, SC 29526

Ed Ratigan, Georgia Department of Transportation, Aviation Programs, 276 Memorial Dr., Atlanta, GA 30047

Gary Rawlinson, Pooler, GA 31322

Cynthia Reese, Congressional Aide for the Honorable Jim Marshall, 502 Bellevue Ave., Ste. C, Dublin, GA 31021

Andy Riley, Swainsboro/Emanuel County, Joint Development Authorities, 124 N. Main St., Swainsboro, GA 30401

The Honorable A. King Rocker, Mayor of City of Millen, P.O. Box 929, Millen, GA 30442-0929

Hartsell O. Rogers, Florence Regional Airport, 2100 Terminal Dr., Florence, SC 29506

Paulette and Roff H. Sasser, III, Sasser Aviation Services, LLC, 23 Airport Rd., Swainsboro, GA 30401

Richard Sidebottom or Marla Matthews, South Carolina Department of Archives and History, South Carolina State Historic Preservation office, 8301 Parklane Rd., Columbia, SC 29223-4905

The Honorable G. Murrell Smith, Jr., South Carolina House of Representatives, 123 Conyers St., Sumter, SC 29150

South Carolina Department of Health and Environmental Control, 2600 Bull St., Columbia, SC 29201

South Carolina Department of Natural Resources, Ft. Johnson Office, P.O. Box 12559, Charleston, SC 29422-2559

The Honorable John Spratt, United States Senate, 39 E. Calhoun St., Sumter, SC 29150

Edward Stephens, Waynesboro, GA 30830

Sonny Stephens, Swainsboro/Emanuel County, Chamber of Commerce, 124 N. Main St., Swainsboro, GA 30401

The Honorable Ricky Stevens, Mayor of Swainsboro, P.O. Box 600, Swainsboro, GA 30401-0600

The Honorable Ross Tolleson, Georgia Senate, P.O. Box 1356, Perry, GA 31069

Town of Pinewood, P.O. Box 236, Pinewood, SC 29125

Sandra S. Tucker, Field supervisor, U.S. Fish and Wildlife Service, 247 S. Milledge Ave., Athens, GA 30605

Scott Turner, Bulloch County Airport, 607 Depot Dr., Statesboro, GA 30461

U.S. Fish and Wildlife Service, Region 4, 1875 Century Blvd., Ste. 400, Atlanta, GA 30345

Gary A. Varga, South Carolina Aviation Association, P.O. Box 12067, Columbia, SC 29211

Jeffrey Vincent, Acting Manager EEOSA-520, ASL520/Air Space Branch, FAA Regulations Office, 1701 Columbia Ave., College Park, GA 30337

Ken Warnock, Swainsboro-Emanuel County, P.O. Box 727, Swainsboro, GA 30401

The Honorable J. David Weeks, South Carolina House of Representatives, 2 Marlborough Court, Sumter, SC 29154

The Honorable Jim Whitehead, Georgia Senate, 4715 Silverlake Dr., Evans, GA 30809

Heidi J. Williams, Aircraft Owners and Pilots Association, 421 Aviation Way, Frederick, MD 21701

The Honorable Kent Williams, South Carolina Senate, 4205 Stirk Pl., Marion, SC 29571

Sample IICEP Letters and Distribution Lists

SAMPLE AIRPORT LETTER WITH ATTACHMENTS

MEMORANDUM FOR: Springs Memorial
Community Health Systems
800 W. Meeting St.
Lancaster SC 29720

FROM: HQ ACC/CEVP
129 Andrews St., Suite 102
Langley AFB VA 23665-2969

SUBJECT: Shaw Air Force Base (AFB) Airspace Training Initiative

1. The United States Air Force (Air Force) is in the process of preparing an Environmental Assessment (EA) to assess the potential environmental consequences of a proposal to implement the Airspace Training Initiative in existing and proposed airspace in South Carolina and Georgia associated with Shaw Air Force Base (AFB), South Carolina. This proposal is intended to provide more effective and realistic training conditions for the Shaw AFB 20th Fighter Wing and the McEntire Air National Guard Station's 169th Fighter Wing.

2. The proposal consists of several elements: creation and modification of training airspace, development of several one-acre training transmitter sites, and use of chaff and flares in the new and modified training airspace. Three alternatives, including a no-action alternative, will be analyzed in the EA. Attachment 1 is a map that depicts the proposed airspace modifications and areas for potential training transmitter locations. Attachment 2 provides a brief narrative description of the proposed Airspace Training Initiative.

3. The Air Force plans to hold several community outreach meetings in the affected areas of South Carolina and Georgia to solicit public and government agency comments on the proposal and assist us in shaping the analysis. Community outreach meetings will be held at locations listed below from 5:30 to 7:30 p.m.

Monday, September 27, 2004, Manning High School Lecture Hall, Manning, SC.

Tuesday, September 28, 2004, Kingstree Senior High School Cafeteria, Kingstree, SC.

Wednesday, September 29, 2004, JB Beck Middle School Auditorium, Georgetown, SC.

Thursday, September 30, 2004, City of Millen Community House, Millen, GA.

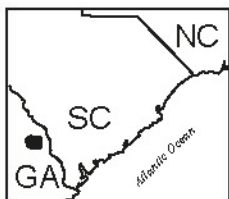
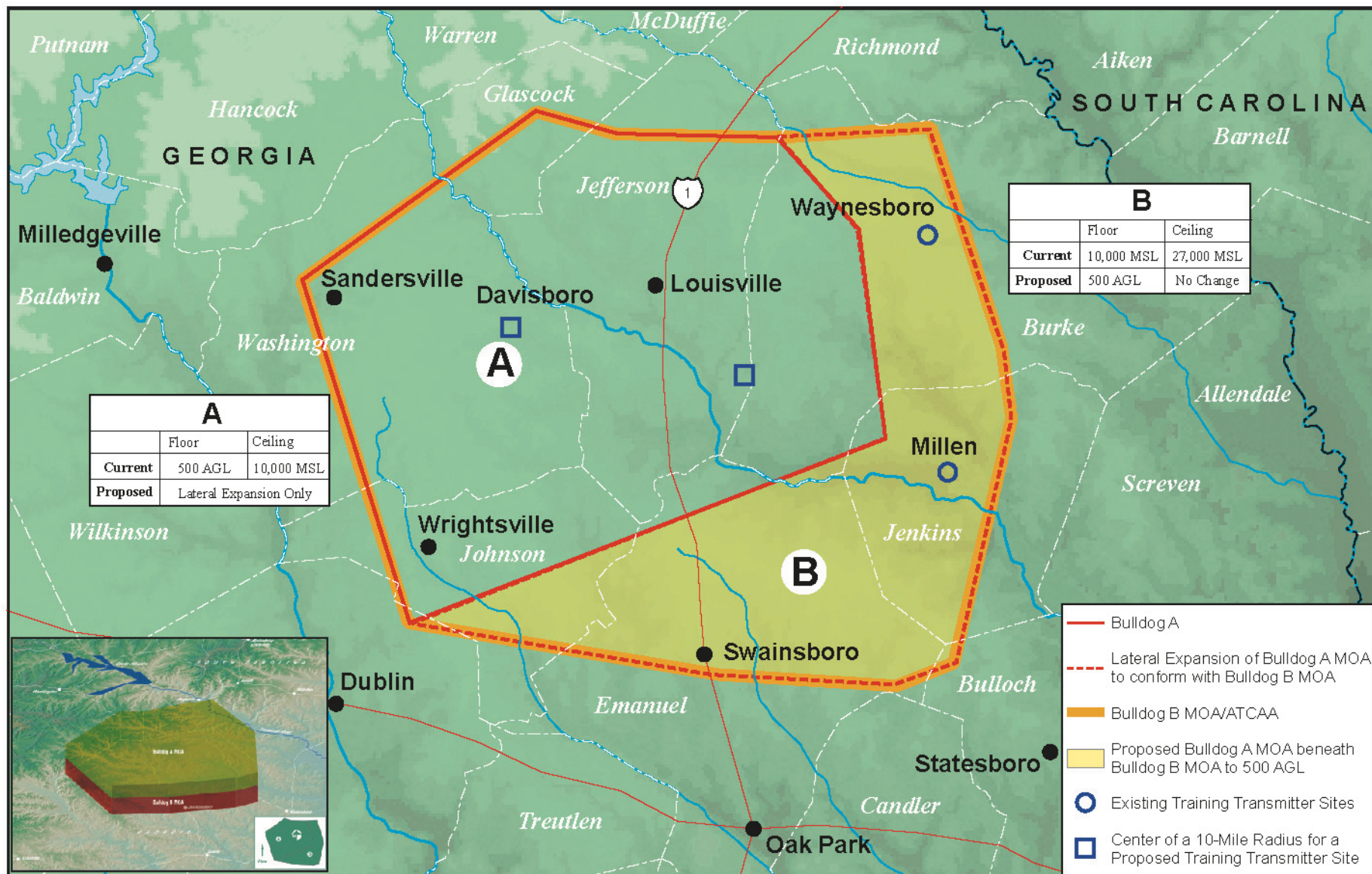
During the meetings, the Air Force will describe the proposed action and alternatives, the National Environmental Policy Act (NEPA) process, and outline the opportunities for public involvement. We look forward to receiving your comments as part of this process.

4. If you have any specific items of interest about the proposal, we would like to hear from you. Please contact the 20 FW/PA, Ms. Judy Lewis or First Lieutenant Suzanne Ovel, (803) 895-2024 or the EA Project Manager, Ms. Linda DeVine, at the above address. Thank you for your assistance in this matter.

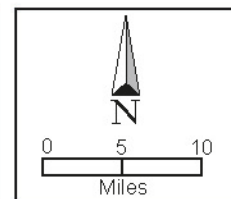
JOANN M. WHITSON
Chief, Environmental Analysis Branch

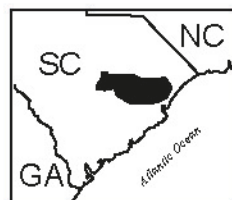
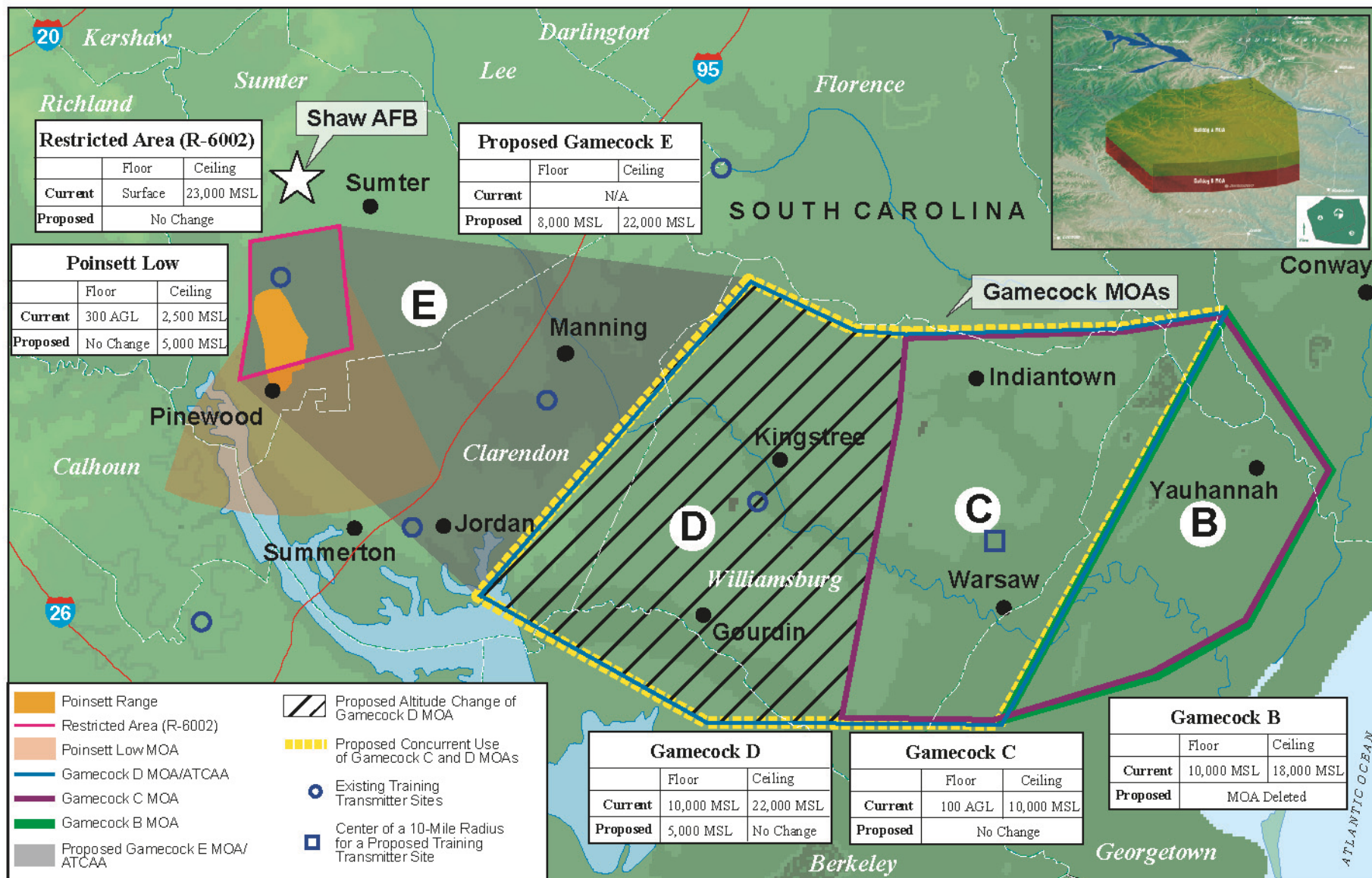
2 Atch:

1. Map of Potentially Affected Areas and Airspace
2. Proposal Overview

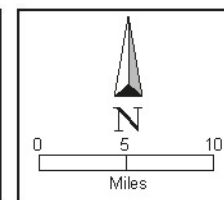


Airspace Training Initiative Bulldog MOAs





Airspace Training Initiative Poinsett Low MOA and Gamecock MOAs/ATCAAs



Proposal Overview

The Airspace Training Initiative involves two types of military training airspace in the vicinity of Shaw Air Force Base (AFB), South Carolina. The proposal also includes the development and use of training transmitter sites. Alternatives, including the no-action, to this proposal will be considered and analyzed.

Included in the airspace proposals are several elements of Special Use Airspace (SUA):

- ***Military Operations Areas (MOAs).*** MOAs are airspace of defined vertical and lateral limits established outside Class A airspace (above 18,000 feet MSL) to separate/segregate certain non-hazardous military activities from Instrument Flight Rule (IFR) traffic and to identify for Visual Flight Rule (VFR) traffic where these activities are conducted.
- ***Air Traffic Control Assigned Airspace (ATCAA).*** ATCAAs are airspace above 18,000 feet MSL controlled by the applicable Air Route Traffic Control Center (ARTCC) which, if not required for other purposes, may be made available for military use. ATCAAs are normally structured and used to extend the horizontal and/or vertical boundaries of other SUA such as MOAs and airspace restricted for military use (Restricted Areas).

The specific elements associated with the proposal are illustrated on the attached map and presented in Table 1. Airspace configuration is described horizontally by geographic coordinates, and vertically by altitudes authorized for use. Altitudes may be specified in feet above ground level (AGL) or feet above mean sea level (MSL).

As presented in Table 1 and described below, the proposal involves five existing MOAs and the creation of a new MOA/ATCAA.

Expansion of Existing Airspace. The Bulldog A MOA would be expanded to the east to match the boundary of the existing Bulldog B MOA (fills in the shelf area of the existing Bulldog B MOA creating a floor of 500 feet AGL). The ceiling of Poinsett Low MOA would be raised from 2,500 feet MSL to 5,000 feet MSL. A portion of the Gamecock D MOA floor would lower from 10,000 MSL to 5,000 MSL. Geographic areas overflowed would remain as described in Table 1 for individual airspace elements.

Creation of New MOA/ATCAA Airspace. The proposed Gamecock E MOA would be created, extending the existing Gamecock MOA complex to the west. This airspace would extend from 8,000 feet MSL to approximately 22,000 feet MSL. This airspace would form a “bridge” allowing transit from the Gamecock MOA complex to Poinsett Range. Chaff and flare use would be extended into the new airspace.

Components of the emitter portion are:

Training Transmitters. Transmitter sites would be approximately 1 acre with a surrounding buffer of up to 15 acres. Transmitter sites require an access road, electrical power, and telephone connection. Potential sites are identified on the attached figure.

Table 1. Airspace Training Initiative Definitions ¹

<i>Training Airspace</i>	<i>Underlying Counties</i>	<i>Current Floor ²</i>	<i>Current Ceiling ²</i>	<i>Proposed Floor</i>	<i>Proposed Ceiling ³</i>	<i>Proposed Expansion?</i>
Gamecock B	Georgetown, Marion, and Horry, South Carolina	10,000 MSL	18,000 MSL	10,000 MSL	18,000 MSL	No Change
Gamecock C	Williamsburg, Florence, and Georgetown, South Carolina	100 AGL	10,000 MSL	100 AGL	10,000 MSL	No Change
Gamecock D	Williamsburg, Clarendon, and Berkeley, South Carolina	10,000 MSL ⁴	18,000 MSL	5,000 MSL	22,000 MSL	Vertical Expansion in western area where MOA does not overlap Gamecock C
"Gamecock E"	Sumter and Clarendon, South Carolina	N/A	N/A	8,000 MSL	22,000 MSL	New MOA Airspace
Poinsett Low	Sumter, Calhoun, and Clarendon, South Carolina	300 AGL	2,500 MSL	300 AGL	5,000 MSL	Vertical Expansion
Bulldog A	Washington, Jefferson, Johnson, Glascock, Burke, Jenkins, and Emanuel, Georgia	500 AGL	10,000 MSL	500 AGL	10,000 MSL	Lateral Expansion to conform with Bulldog B
Bulldog B	Burke, Emanuel, Jefferson, Washington, Glascock, Jenkins, and Johnson, Georgia	10,000 MSL ⁵	18,000 MSL	500 AGL	27,000 MSL	Vertical Expansion to conform with Bulldog A

- Notes: 1. Average ground elevation underlying MOAs is approximately 500 MSL.
2. Reflects charted altitudes.
3. By definition, MOAs extend from a charted altitude (floor) up to, but not including 18,000 MSL or less. Proposed ceilings reflect the inclusion of ATCAA to further extend the vertical boundary of the airspace.
4. Operationally, floor of Gamecock D MOA is restricted to 12,000 MSL per Letter of Agreement between 20 FW and Jacksonville ARTCC.
5. Operationally, floor of Bulldog B MOA east and south of Bulldog A MOA is restricted to 11,000 MSL per Letter of Agreement between 20 FW and Atlanta ARTCC.

AIRPORT LETTER RECIPIENTS

Daniels Airport, Daniels Chevrolet Company, Swainsboro, GA 30401
Springs Memorial, Community Health Systems, 800 W Meeting Street, Lancaster, SC 29720
Keith Brock, Jenkins County Airport, City Hall, P.O. Box 797, Millen, GA 30442
Larry Clark, Wrens Memorial Airport, City Hall, P.O. Box 125, Wrens, GA 30833
Keith Claxton, Paces South Farms Airport, 22 Lambs Chapel Road, Midville, GA 30441
J.P. Gamble, Williamsburg Regional Airport, P.O. Box 1124, Kingstree, SC 29556
Wilson Hardee, Hemingway-Stuckey Airport, P.O. Box 968, 110 Main Street, Hemingway, SC 29554
Thomas P. Harlan, Emanuel County Hospital Helipad, P.O. Box 879, Swainsboro, GA 30401
C.W. Hopper, Burke County Airport, P.O. Box 89, Waynesboro, GA 30830
Ray Jordan, Jordan Airport, Route 1, Box 294-D, Andrews, SC 29510
Les Kanna & Ed Lee, Unity Aerodrome, 2895 Aero Lane, Lancaster, SC 29720
Pete Kinder, Robert F. Swinnie Airport, 12 S. Rosemary Avenue, Andrews, SC 29510
James B. Kirk, Kirk Air Base, 1007 Kirk Air Base Road, Lancaster, SC 29720
Ray Lawrence, Kaolin Field, P.O. Box 598, Sandersville, GA 31082
Marion Lowder, Assistant City Administrator, Lake City Municipal Airport, P.O. Box 1329, Lake City, SC 29560
Ken & Steve McNeil, McNeil Airport, Route 1, Box 627, Cameron, SC 29030
Tom Paquin, Lancaster County-McWhirter Field, 296 Aviation Blvd, Lancaster, SC 29720
Al Patton, Pea Patch Aerodrome, 4511 Boulineau Road, Blythe, GA 30805
Dick Plowman, Darla's Airport, Route 2, Box 108, Kite, GA 31049
Charles Price, Memorial Hospital of Washington County – Helipad, 610 Sparta Hwy , P.O. Box 636, Sandersville, GA 31082
Tom Quick, Burke County Hospital Helipad, 351 Liberty Street, Waynesboro, GA 30830
Lin Rainey, Clarendon Memorial Hospital Helipad, 10 Hospital Street, Manning, SC 29102
Jayne & Frank Reid, Bermuda High Airport, P.O. Box 1510, Lancaster, SC 29721-1510
James D. Rhodes, Louisville Municipal Airport, P.O. Box 527, Louisville, GA 30434
Lyniel Dean Weaver, Jr., Weaver Field, 221 E Salem Road, Johnsonville, SC 29555
Joseph M. Witt, Palmetto Air Plantation, P.O. Box 777, Manning, SC 29102

SAMPLE BIOLOGICAL LETTER

MEMORANDUM FOR: U.S. Department of Interior
U.S. Fish and Wildlife Service
247 Milledge Avenue
Athens GA 30605

FROM: HQ ACC/CEVP
129 Andrews St., Suite 102
Langley AFB VA 23665-2969

SUBJECT: Shaw Air Force Base (AFB) Airspace Training Initiative

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2. The proposal consists of several elements: creation and modification of training airspace, development of several one-acre training transmitter sites, and use of chaff and flares in the new and modified training airspace. Three alternatives, including a no-action alternative, will be analyzed in the EA. Attachment 1 is a map that depicts the proposed airspace modifications and areas for potential training transmitter locations. Attachment 2 provides a brief narrative description of the proposed Airspace Training Initiative.
3. Pursuant to analysis of the proposed action and alternatives, as well as compliance with the Endangered Species Act, we would like to request information regarding listed threatened, endangered, candidate, and proposed to be listed species that occur or may occur in the potentially affected area. This area includes areas under the involved airspace and at potential transmitter site locations. Please send this information to our representative at: Science Applications International Corporation (SAIC), Shaw AFB Airspace Training Initiative EA, 405 South 8th St. Suite 301, Boise, Idaho, 83702. We would appreciate your identifying a point of contact for any follow-up questions we may have concerning the data you provide.
4. The Air Force plans to hold several community outreach meetings in the potentially affected areas of South Carolina and Georgia to solicit public and government agency comments on the proposal and assist us in shaping the analysis. Community outreach meetings will be held at locations listed below from 5:30 to 7:30 p.m. During the meetings, the Air Force will describe the proposed action and alternatives, the National Environmental Policy Act (NEPA) process, and outline the opportunities for public involvement. We look forward to receiving your comments as part of this process.

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5. If you have any specific items of interest about the proposal, we would like to hear from you. Please contact the 20 FW/PA, Ms. Judy Lewis or First Lieutenant Suzanne Ovel, (803) 895-2024 or the EA Project Manager, Ms. Linda DeVine, at the above address. Thank you for your assistance in this matter.

JOANN M. WHITSON
Chief, Environmental Analysis Branch

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U.S. Fish and Wildlife Service, Region 4, 1875 Century Blvd, Ste 400, Atlanta, GA 30345

Phil Degarmo, U.S. Fish and Wildlife Service Ecological Field Office, 176 Croghan Spur Road,
Suite 200, Charleston, SC 29407-7558

Sandra S. Tucker, U.S. Fish and Wildlife Service, 247 South Milledge Avenue, Athens, GA
30605

SAMPLE CULTURAL LETTER

MEMORANDUM FOR: Serena Bellew
State Historic Preservation Office
Georgia Historic Preservation Division
147 Trinity Ave. SW, Ste. 414H
Atlanta GA 30303-3400

FROM: HQ ACC/CEVP
129 Andrews St., Suite 102
Langley AFB, VA 23665-2969

SUBJECT: Shaw Air Force Base (AFB) Airspace Training Initiative

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3. We are beginning the process of identifying applicable cultural resources information for areas under the involved airspace and at potential transmitter site locations. We would appreciate any assistance you could provide in identifying and retrieving this important information, as well as concerns you may have about the potential effects of the proposal on significant cultural resources. Please respond to: Science Applications International Corporation (SAIC), Shaw AFB Airspace Training Initiative EA, 405 S. 8th Street, Suite 301, Boise, Idaho, 83702.
4. The Air Force plans to hold several community outreach meetings in the potentially affected areas of South Carolina and Georgia to solicit public and government agency comments on the proposal and assist us in shaping the analysis. Community outreach meetings will be held at locations listed below from 5:30 to 7:30 p.m. During the meetings, the Air Force will describe the proposed action and alternatives, the National Environmental Policy Act (NEPA) process, and outline the opportunities for public involvement. We look forward to receiving your comments as part of this process.

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Chief, Environmental Analysis Branch

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CULTURAL LETTER RECIPIENTS

Serena Bellew, State Historic Preservation Office, Georgia Historic Preservation Division, 147
Trinity Ave SW, Ste. 414H, Atlanta, GA 30303-3400

Richard Sidebottom or Marta Matthews, South Carolina Department of Archives and History,
South Carolina State Historic Preservation Office, 8301 Parklane Road, Columbia, SC
29223-4905

SAMPLE GENERAL DATA COLLECTION LETTER

MEMORANDUM FOR: Natural Resources Conservation Service Field Office
101 S Main Street
Federal Building, Room 101
Sumter SC 29150

FROM: HQ ACC/CEVP
129 Andrews St., Suite 102
Langley AFB VA 23665-2969

SUBJECT: Shaw Air Force Base (AFB) Airspace Training Initiative

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GENERAL DATA COLLECTION RECIPIENTS

Francis Marion and Sumter National Forests, 4931 Broad River Road, Columbia, SC 29212-3530

USDA-NRCS State Office, Strom Thurmond Federal Building, 1835 Assembly Street, Room 950, Columbia, SC 29201

South Carolina Department of Health and Environmental Control, 2600 Bull Street, Columbia, SC 29201

U.S. Army Corps of Engineers, Savannah District, Attn: RE-RM, P.O. Box 889, Savannah, GA 31410-0889

SC Department of Natural Resources, Ft. Johnson Office, P.O. Box 12559, Charleston, SC 29422-2559

South Carolina Department of Parks, Recreation and Tourism, 1205 Pendleton Street, Columbia, SC 29201

Wildlife Resources Division, Nongame & Endangered Wildlife Program, 116 Rum Creek Drive, Forsyth, GA 31029

Natural Resources Conservation Service Field Office, 101 S Main Street, Federal Building, Room 101, Sumter, SC 29150

South Carolina Division of Aeronautics, P.O. Box 280068, Columbia, SC, 29228

South Carolina Department of Agriculture, P.O. Box 11280, Columbia, SC 29211

Ed Duncan, Marine Resources Center, SC Wildlife & Marine Resources Div., P.O. Box 12559, Charleston, SC 29422-2559

Julie Holling, Heritage Trust Program, South Carolina Department of Natural Resources, P.O. Box 167, Columbia, SC 29202

Pat Hooks, Regional Director, National Park Service, 1924 Building, 100 Alabama St. SW, Atlanta, GA 30303

Barbara Jackson, Georgia State Clearinghouse, 270 Washington Street, SW, 8th Floor, Atlanta, GA 30334

Leonard Jordan, State Conservationist, USDA-NRCS, 355 East Hancock Avenue, Stop Number 200, Athens, GA 30601

Alan Lucas, FAA Southern Region, P.O. Box 20636, Atlanta, GA 30320-0631

Liz Wilde, USEPA Region IV, 61 Forsyth Street, Atlanta, GA 30342

SAMPLE GENERAL NOTICE LETTER

MEMORANDUM FOR: Town of Awendaw
6971 Doar Rd.
Awendaw SC 29429-6019

FROM: HQ ACC/CEVP
129 Andrews St., Suite 102
Langley AFB VA 23665-2969

SUBJECT: Shaw Air Force Base (AFB) Airspace Training Initiative

1. The United States Air Force (Air Force) is in the process of preparing an Environmental Assessment (EA) to assess the potential environmental consequences of a proposal to implement the Airspace Training Initiative in existing and proposed airspace in South Carolina and Georgia associated with Shaw Air Force Base (AFB), South Carolina. This proposal is intended to provide more effective and realistic training conditions for the Shaw AFB 20th Fighter Wing and the McEntire Air National Guard Station's 169th Fighter Wing.

2. The proposal consists of several elements: creation and modification of training airspace, development of several one-acre training transmitter sites, and use of chaff and flares in the new and modified training airspace. Three alternatives, including a no-action alternative, will be analyzed in the EA. Attachment 1 is a map that depicts the proposed airspace modifications and areas for potential training transmitter locations. Attachment 2 provides a brief narrative description of the proposed Airspace Training Initiative.

3. The Air Force plans to hold several community outreach meetings in the potentially affected areas of South Carolina and Georgia to solicit public and government agency comments on the proposal and assist us in shaping the analysis. Community outreach meetings will be held at locations listed below from 5:30 to 7:30 p.m. During the meetings, the Air Force will describe the proposed action and alternatives, the National Environmental Policy Act (NEPA) process, and outline the opportunities for public involvement. We look forward to receiving your comments as part of this process.

Monday, September 27, 2004, Manning High School Lecture Hall, Manning, SC.

Tuesday, September 28, 2004, Kingstree Senior High School Cafeteria, Kingstree, SC.

Wednesday, September 29, 2004, JB Beck Middle School Auditorium, Georgetown, SC.

Thursday, September 30, 2004, City of Millen Community House, Millen, GA.

4. If you have any specific items of interest about the proposal, we would like to hear from you. Please contact the 20 FW/PA, Ms. Judy Lewis or First Lieutenant Suzanne Ovel, (803) 895-2024 or the EA Project Manager, Ms. Linda DeVine, at the above address. Thank you for your assistance in this matter.

JOANN M. WHITSON
Chief, Environmental Analysis Branch

2 Atch:

1. Map of Potentially Affected Areas and Airspace
2. Proposal Overview

GENERAL NOTICE RECIPIENTS

Town of St. Stephen, 124 Hood Street, St. Stephen, SC 29479-3371

City of Manning, 411 N Brooks Street, Manning, SC 29102-0546

Town of Paxville, P.O. Box 11, Paxville, SC 29102

Town of Awendaw, 6971 Doar Road, Awendaw, SC 29429-6019

Town of Greeleyville, 3 Toby Place, Greeleyville, SC 29056-0212

Town of Pinewood, P.O. Box 236, Pinewood, SC 29125

Glascocock County Commissioners, 62 E Main Street, Gibson, GA 30810

Chairman Terry Alexander, Florence County, P.O. Box 1822, Florence, SC 29503

Georgia House of Representatives, The Honorable Alberta Anderson, P.O. Box 886,
Waynesboro, GA 30830

Mayor of Midville, The Honorable Bruce Anderson, P.O. Box 234, Midville, GA 30441-0234

South Carolina House of Representatives, The Honorable Liston D. Barfield, P.O. Box 1734,
Conway, SC 29528

South Carolina House of Representatives, The Honorable James A. Battle, Jr., P.O. Box 211,
Nichols, SC 29581

South Carolina House of Representatives, The Honorable Lester P. Branham, Jr., 118
Lockwood Drive, Lake City, SC 29560

Georgia State Senate, The Honorable Don Cheeks, 716 Westminster Court, Augusta, GA 30909

South Carolina House of Representatives, The Honorable Marty Coates, P.O. Box 3656,
Florence, SC 29502

Chairman Horace Danielle, Washington County Commission, P.O. Box 271, Sandersville, GA
31082

Maj. Kevin L. Edenborough, 437 OSS/OST, 102 E. Hill Blvd., Ste. C, Charleston AFB, SC 29404-
5054

Chairman Charles T. Edens, Sumter County Council, County Administration Building, 13 East
Canal Street, Sumter, SC 29150

South Carolina Senate, The Honorable Dick Elliott, 601 Gressette Building, Columbia, SC 29202

Chairman Liz Gilland, Horry County, 1511 Elm Street Conway, SC 29526

Georgia State Senate, The Honorable Hugh Gillis, 302 Louisiana Avenue, West Soperton, GA
30457

South Carolina Senate, The Honorable Maggie Wallace Glover, 910 W. Sumter Street, Florence,
SC 29501

South Carolina House of Representatives, The Honorable Amos L. Gourdine, P.O. Box 26,
Pineville, SC 29468

Mayor of Twin City, The Honorable Jimmy Greenway, P.O. Box 980, Twin City, GA 30471-0980

South Carolina Senate, The Honorable Larry Grooms, 606 Gressette Bldg, Columbia, SC 29202

Lt. Col. James D. Hartley, Jr., McEntire ANG Station, 1325 South Carolina Road, Ste. 37,
Eastover, SC 29044-5037

South Carolina House of Representatives, The Honorable C. Alexander Harvin, III, P.O. Box
266, Summerton, SC 29148

Chairman Sel Hemingway, Georgetown County, 37 E Main Street, Andrews, SC 29520

Chairman James Henry, Jenkins County Board of Commissioners, P.O. Box 797, Millen, GA
30442

Georgia State Senate, The Honorable Jack Hill, P.O. Box 486, Reidsville, GA 30453

Chairman Gardner Hobbs, Jefferson County Commissioner, 217 E Broad Street, Louisville, GA
30434-1621

Georgia House of Representatives, The Honorable Sistie Hudson, P.O. Box 58, Sparta, GA
31087

South Carolina House of Representatives, The Honorable Thomas G. Keegan, 209 Prestwick
Road, Surfside Beach, SC 29588-5389

South Carolina House of Representatives, The Honorable Kenneth Kennedy, 328B Blatt
Building, Columbia, SC 29201

Mayor of Kingstree, The Honorable James Kirby, P.O. Box 207, 401 N. Longstreet St., Kingstree,
SC 29556

Chairman Emory Lake, Laurens County, 117 East Jackson Street, P.O. Box 2011, Dublin, GA
31040

South Carolina Senate, The Honorable John Land, III, 504 Gressette Building, Columbia, SC
29202

Georgia House of Representatives, The Honorable Bob Lane, 205 Aldred Avenue, Statesboro,
GA 30458

Chairman Barrett Lawrimore, Charleston County, 52 Shrewsbury Road, Charleston, SC 29407

South Carolina Senate, The Honorable Hugh K. Leatherman, Sr., 1817 Pineland Avenue,
Florence, SC 29501

Mayor of McClellanville, The Honorable Rutledge Leland, III, 405 Pickney Street,
McClellanville, SC 29458

South Carolina Senate, The Honorable Phil Leventis, 601 Gressette Building, Columbia, SC
29202

Georgia House of Representatives, The Honorable Jimmy Lord, P.O. Box 254, Sandersville, GA
31082

Chairman James M. Dixon, Burke County Board of Commissioners, 602 North Liberty Street,
Waynesboro, GA 30830-1417

Fiscal Manager, Grant Services, Jean Manheimer, State Application Identifier: SC040804-16,
Office of State Budget , 1201 Main Street, Suite 950, Columbia, SC 29201

Chairman James McAfee, Jr., Johnson County, P.O. Box 269, Wrightsville, GA 31096-0269

Mayor of Sumter, The Honorable Joseph T. McElveen, P.O. Box 1449, 21 N. Main St., Sumter, SC
29251-1449

South Carolina Senate, The Honorable J. Yancey McGill, 601 Longstreet Street, Kingstree, SC
29556

Lt. Col. Jerome Mcleod, III, McEntire ANG Station, 1325 South Carolina Road, Ste. 8, Eastover,
SC 29044-5008

South Carolina House of Representatives, The Honorable Vida Miller, 335D Blatt Bldg,
Columbia, SC 29202

Georgia House of Representatives, The Honorable Greg Morris, P.O. Box 1749, Vidalia, GA
30475

South Carolina House of Representatives, The Honorable Joseph, Neal, P.O. Box 5, Hopkins, SC
29061

The Honorable Richard Newsome, Mayor, Town of Kite, P.O. Box 190, Kite, GA 31049-0190

Maj. Gen. Tom Olsen, USAF - Ret, City Hall - Sumter Base Defense, 21 N Main Street, Sumter,
SC 29150

Georgia House of Representatives, The Honorable Larry Parrish, 224 West Main Street,
Swainsboro, GA 30401

Chairman, John E. Parrish, Jr., Bulloch County Board of Commissioners, 115 North Main Street,
P.O. Box 347, Statesboro, GA 30459

Governor of Georgia, The Honorable Sonny Perdue, Georgia State Capitol, Atlanta, GA 30334

Georgia House of Representatives, The Honorable DuBose Porter, P.O. Drawer B, CSS, Dublin,
GA 31040

County Administrator, Ezra Price, Emanuel County Board of Commissioners, P.O. Box 787,
Swainsboro, GA 30401-3554

Mayor of Garfield, The Honorable Virgil Rainey, P.O. Box 124, Garfield, GA 30425-0124

South Carolina Senate, The Honorable Luke A. Rankin, Sr., 201 Beaty Street, Conway, SC 29526

South Carolina Senate, The Honorable Arthur Ravene, 604 Gressette Bldg, Columbia, SC 29202

Mayor of City of Millen, The Honorable A. King Rocker, P.O. Box 929, Millen, GA 30442-0929

Chairman James Rozier, Jr., Berkeley County, 223 North Live Oak Drive, Moncks Corner, SC
29461

Chairman W Lamar Samples, Candler County, 705 North Lewis Street, Metter, GA 30439

Governor of South Carolina, The Honorable Mark Sanford, Box 12267, Columbia, SC 29211

Chairman Elista Smith, Marion County, 1842 Bluff Road, Marion, SC 29571

South Carolina House of Representatives, The Honorable G. Murrell Smith, Jr., 123 Conyers Street, Sumter, SC 29150

South Carolina House of Representatives, The Honorable John Snow, 1482 Henry Road, Hemingway, SC 29554

Mayor of Swainsboro, The Honorable Ricky Stevens, P.O. Box 600, Swainsboro, GA 30401-0600

Chairman Dwight L. Stewart, Jr., Clarendon County, 26 E. Boyce Street, Manning, SC 29102

Mayor of Waynesboro, The Honorable Jesse Stone, 628 Myrick Street, Waynesboro, GA 30830-1472

Chairman Richard Treme, Williamsburg Council, P.O. Box 330, Kingstree, SC 29556

South Carolina House of Representatives, The Honorable J. David Weeks, 2 Marlborough Court, Sumter, SC 29154

Mayor of Lane, The Honorable William Wheeler, 345 S Lane Road, Lane, SC 29564-0039

Mayor of Georgetown, The Honorable Lynn Wilson, 120 N. Fraser Street, Georgetown, SC 29442-0939

SAMPLE TRIBAL LETTER

Eastern Band of Cherokee Indians
P.O. Box 460
Cherokee NC 28719

Dear Sir/Madam,

The United States Air Force (Air Force) is in the process of preparing an Environmental Assessment (EA) to assess the potential environmental consequences of a proposal to implement the Airspace Training Initiative in existing and proposed airspace in South Carolina and Georgia associated with Shaw Air Force Base (AFB), South Carolina. This proposal is intended to provide more effective and realistic training conditions for the Shaw AFB 20th Fighter Wing and the McEntire Air National Guard Station's 169th Fighter Wing.

The Shaw AFB Airspace Training Initiative proposal consists of several elements: creation and modification of training airspace, development of several one-acre training transmitter sites, and use of chaff and flares in the new and modified training airspace. Three alternatives, including a no-action alternative, will be analyzed in the EA. Attachment 1 is a map that depicts the proposed airspace modifications and areas for potential training transmitter locations. Attachment 2 provides a brief narrative description of the proposed Airspace Training Initiative.

As part of the EA process, the Air Force would like to consider your concerns and initiate Government-to-Government consultation regarding the proposed action. The Air Force plans to hold several community outreach meetings in the potentially affected areas of South Carolina and Georgia to solicit public and government agency comments on the proposal and assist us in shaping the analysis. Community outreach meetings will be held at locations listed below from 5:30 to 7:30 p.m.

Monday, September 27, 2004, Manning High School Lecture Hall, Manning, SC.

Tuesday, September 28, 2004, Kingstree Senior High School Cafeteria, Kingstree, SC.

Wednesday, September 29, 2004, JB Beck Middle School Auditorium, Georgetown, SC.

Thursday, September 30, 2004, City of Millen Community House, Millen, GA.

During the meetings, the Air Force will describe the proposed action and alternatives, the National Environmental Policy Act (NEPA) process, and outline the opportunities for public involvement. We look forward to receiving your comments as part of this process.

If you have any specific items of interest about the proposal, we would like to hear from you. Please contact the 20 FW/PA, Ms. Judy Lewis or First Lieutenant Suzanne Ovel, (803) 895-2024 or the EA Project Manager, Ms. Linda DeVine, at the above address. Thank you for your assistance in this matter.

JOANN M. WHITSON
Chief, Environmental Analysis Branch

2 Atch:

1. Map of Potentially Affected Areas and Airspace
2. Proposal Overview

TRIBAL LETTER RECIPIENTS

Georgia Tribe of Eastern Cherokee Indians, P.O. Box 1915, Cumming, GA 30028

Eastern Band of Cherokee Indians, P.O. Box 460, Cherokee, NC 28719

Chairman Gilbert Blue, Catawba Indian Tribe, P.O. Box 188, Catawba, SC 29704

SAMPLE CONGRESSIONAL LETTER

MEMORANDUM FOR: The Honorable Henry Brown
South Carolina House of Representatives
1800 N Oak Street #C
Myrtle Beach SC 29577

FROM: HQ ACC/CEVP
129 Andrews St., Suite 102
Langley AFB VA 23665-2969

SUBJECT: Shaw Air Force Base (AFB) Airspace Training Initiative

1. The United States Air Force (Air Force) is in the process of preparing an Environmental Assessment (EA) to assess the potential environmental consequences of a proposal to implement the Airspace Training Initiative in existing and proposed airspace in South Carolina and Georgia associated with Shaw Air Force Base (AFB), South Carolina. This proposal is intended to provide more effective and realistic training conditions for the Shaw AFB 20th Fighter Wing and the McEntire Air National Guard Station's 169th Fighter Wing.
2. The Air Force held several community outreach meetings in areas potentially affected by the proposal. These meetings were held in Manning, Kingstree, and Georgetown, South Carolina and Millen, Georgia to solicit public and government agency comments on the proposal and assist us in shaping the analysis. During the meetings, the Air Force described the proposed action and alternatives, the National Environmental Policy Act (NEPA) process, and outlined the opportunities for public involvement. This letter follows the meetings to insure you are aware of this proposal. Please send comments on this proposal to the above address by October 15, 2004. However, we will accept comments throughout the entire process.
3. The proposal consists of several elements: creation and modification of training airspace, development of several one-acre training transmitter sites, and use of chaff and flares in the new and modified training airspace. Three alternatives, including a no-action alternative, will be analyzed in the EA. Attachment 1 is a map that depicts the proposed airspace modifications and areas for potential training transmitter locations. Attachment 2 provides a brief narrative description of the proposed Airspace Training Initiative.

4. If you have any specific items of interest about the proposal, we would like to hear from you. Please contact the 20 FW/PA, Ms. Judy Lewis or First Lieutenant Suzanne Ovel, (803) 895-2024 or the EA Project Manager, Ms. Linda DeVine, at the above address. Thank you for your assistance in this matter.

JOANN M. WHITSON
Chief, Environmental Analysis Branch

2 Atch:

1. Map of Potentially Affected Areas and Airspace
2. Proposal Overview

CONGRESSIONAL RECIPIENTS

The Honorable Henry Brown, South Carolina House of Representatives, 1800 N Oak Street #C,
Myrtle Beach, SC 29577

The Honorable Lindsey Graham, United States Senator, PO Box 1155, Seneca, SC 29679

The Honorable Fritz Hollings, United States Senator, 1835 Assembly Street, Suite 1551,
Columbia, SC 29201-2430

The Honorable John Spratt, South Carolina House of Representatives, 39 E Calhoun Street,
Sumter, SC 29150

The Honorable James Clyburn, South Carolina House of Representatives, 1703 Gervais Street,
Columbia, SC 29201

The Honorable Max Burns, Georgia House of Representatives, 2743 Perimeter Parkway,
Building 200 - Suite #130, Augusta, GA 30909

The Honorable Zell Miller, United States Senator, 100 Colony Square, Suite 300, 1175 Peachtree
Street, NE, Atlanta, GA 30361

The Honorable Saxby Chambliss, United States Senator, 2 East Bryan Street, Suite 620,
Savannah, GA 31401

The Honorable Jim Marshall, Georgia House of Representatives, 682 Cherry Street, Suite 300,
Macon, GA 31201

**Cooperating Agency, Consultation, and
Coordination Letters Received**

**COOPERATING AGENCY, CONSULTATION, AND
COORDINATION LETTERS RECEIVED**

Date	To	From	Attachments
26 Aug 04	Federal Aviation Administration	Air Force HQ ACC/CE	
14 Sep 04	Air Force HQ ACC/CE	Federal Aviation Administration	
31 Aug 04	Air Force HQ ACC/CEVP	State of South Carolina, State Budget and Control Board	
13 Sep 04	Air Force HQ ACC/CEVP	South Carolina Department of Natural Resources	Rare, Threatened, and Endangered Species
13 Sep 04	Air Force HQ ACC/CEVP	United States Dept. of the Interior, Fish and Wildlife Service	
17 Sep 04	Air Force HQ ACC/CEVP	United States Dept. of the Interior, Fish and Wildlife Service	
20 Sep 04	Air Force HQ ACC/CEVP	State of South Carolina, State Budget and Control Board	
22 Sep 04	Air Force HQ ACC/CEVP	South Carolina Archives History Center	
8 Oct 04	Air Force HQ ACC/CEVP	United States Department of Agriculture - Natural Resources Conservation Service	
15 Oct 04	Air Force HQ ACC/CEVP	Georgia Department of Transportation	
15 Oct 04	Air Force	South Carolina Department of Commerce, Division of Aeronautics	
5 Jan 05	Air Force HQ ACC/CEVP	Georgia Department of Transportation	
15 Apr 05	Science Applications International Corporation	Georgia Department of Natural Resources, Wildlife Resources Division	Locations of Special Concern Animals, Plants and Natural Communities in Burke County, Georgia
31 May 2005	Air Protection Branch DOT Office of Intermodal Programs Central Savannah River RDC Heart of GA Altamaha RDC	Georgia State Clearinghouse	Listed Species

Date	To	From	Attachments
21 June 2005	Fish and Wildlife Service	Science Applications International Corporation	USFWS Letter, September 17, 2004
21 June 2005	Fish and Wildlife Service	Science Applications International Corporation	USFWS Letter, September 17, 2004
24 June 2005	Air Force HQ ACC/CEVP	Georgia State Clearinghouse	
14 July 2005	Science Applications International Corporation	Fish and Wildlife Service	
2 August 2005	Science Applications International Corporation	Fish and Wildlife Service	



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE, VIRGINIA

MEMORANDUM FOR SABRA KAULIA

26 Aug 04

Program Director, Air Traffic Airspace Management Program (ATA-1)
Federal Aviation Administration
800 Independence Ave, SW
Washington D.C. 20591

FROM: HQ ACC/CE

129 Andrews Street, Suite 102
Langley AFB VA 23665-2769

SUBJECT: Cooperating Agency Request for Shaw Air Force Base Airspace Training Initiative

1. The Air Force requests your formal participation in preparation of an Environmental Assessment (EA) for proposed changes to Shaw Air Force Base's military training airspace. This request is based on guidance in the President's Council on Environmental Quality National Environmental Policy Act (NEPA Regulations, 40 CFR, § 1501.6 *Cooperating Agencies*) and in accordance with the 1998 Memorandum of Understanding between the Federal Aviation Administration (FAA) and the Air Force Concerning Special Use Airspace Environmental Actions.
2. This airspace training initiative proposes changes to the Bulldog A/B Military Operations Areas (MOA) near Millen GA, Gamecock D MOA near Kingstree SC, and Poinsett MOA near Pinewood SC. It also calls for the creation of a MOA near Manning SC, creating a bridge between Gamecock D MOA and Restricted Area 6002. As a cooperating agency, the Air Force specifically requests your participation in various portions of the EA development as required, including (a) participating in the scoping process; (b) assuming responsibility, upon Air Force request, for developing information and preparing analyses on issues for which you have special expertise; and (c) making staff support available to enhance interdisciplinary review capability.
3. We respectfully ask that you respond in writing to this request, and we look forward to working closely with the FAA Eastern region to produce an environmental analysis that meets the needs of both organizations. Our staff points of contact are Ms. Linda DeVine, HQ ACC/CEVP, (757) 764-9434, or Mr. Art Byers 20 OSS/OSTA, (803) 895-1122; both stand ready to support you in this endeavor.

RICHARD C. HOWELL
Colonel, USAF
Deputy Civil Engineer

cc: SAF/IEE
HQ USAF/ILEB
HQ ACC/DOR
20 FW/CC
20 OSS/CC



U.S. Department
of Transportation
**Federal Aviation
Administration**

System Operations & Safety

800 Independence Ave, SW
Washington, DC 20591

SEP 14 2004

Richard C. Howell, Colonel, USAF
Deputy Civil Engineer
HQ ACC/CE
129 Andrews Street, Suite 102
Langley AFB, VA 23665-2769

Dear Col. Howell:

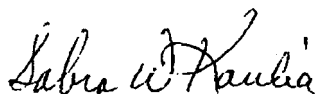
Thank you for your memorandum of August 26, 2004 requesting Federal Aviation Administration (FAA) participation as a Cooperating Agency in the Environmental Assessment (EA) for proposed changes to the Shaw Air Force Base's military training airspace.

We are pleased to participate as a cooperating agency, in accordance with the National Environmental Policy Act of 1969, as Amended, and its implementing regulations. Since the proposal contemplates activities associated with Special Use Airspace (SUA), the FAA will cooperate following the guidelines described in the Memorandum of Understanding between the FAA and the Department of Defense Concerning SUA Environmental Actions, dated January 26, 1998.

The FAA Area Director of Eastern EnRoute & Oceanic Operations will be the primary environmental focal point for matters related to this proposal. A copy of this letter and your memorandum is being forwarded to Mr. Steve Osterdahl, the Acting Director. You can contact him directly at (404) 305-5500.

We look forward to working with the Air Force on the environmental process for the Shaw AFB military airspace training initiative.

Sincerely,



Sabra Kaulia
Director of System Operations &
Safety

CC, with attachments:
FAA Area Director of Eastern
EnRoute & Oceanic Operations

STATE OF SOUTH CAROLINA
State Budget and Control Board
OFFICE OF STATE BUDGET

MARK SANFORD, CHAIRMAN
GOVERNOR

GRADY L. PATTERSON, JR.
STATE TREASURER

RICHARD ECKSTROM
COMPTROLLER GENERAL



HUGH K. LEATHERMAN, SR.
CHAIRMAN, SENATE FINANCE COMMITTEE

ROBERT W. HARRELL, JR.
CHAIRMAN, WAYS AND MEANS COMMITTEE

FRANK W. FUSCO
EXECUTIVE DIRECTOR

1201 Main Street, Suite 950
COLUMBIA, SOUTH CAROLINA 29201
(803) 734-2280

LEE BOLES
DIRECTOR

ACKNOWLEDGEMENT

August 31, 2004

Joann M. Whitson
Department of the Air Force
HQ ACC/CEVP
129 Andrews Street, Suite 102
Langley AFB, VA 23665-2969

Project Name: **Shaw Air Force Base (AFB) Airspace Training Initiative**
State Application Identifier: **SC040804-16** Suspense Date: **9/22/04**

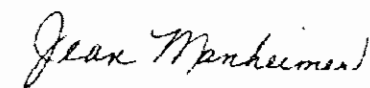
Dear Ms. Whitson:

Receipt of the above referenced project is acknowledged. The Grant Services Unit, Office of State Budget, has initiated an intergovernmental review of this project. You will be notified of the results of this review by the suspense date indicated above.

All projects requiring intergovernmental review are posted on the project application bulletin located on the State Clearinghouse website at www.budget.sc.gov/OSB-ch-bulletins.phtm. The bulletin, which is updated weekly, provides a listing of the projects along with pertinent project information. State agencies and Council of Government's will access the website bulletin and determine which project applications they wish to review. You will be responsible to provide a copy of the project application for their review.

South Carolina state agencies are reminded that if additional budget authorization is needed for this project, one copy of the completed GCR-1 form and one copy of the award documentation must be submitted to this office. This action should be initiated immediately, if required. Please include the State Application Identifier in any correspondence with our office regarding this project. If you have any questions please contact Bonny Anderson at (803) 734-0435.

Sincerely,


Jean Manheimer
Fiscal Manager, Grant Services

South Carolina Department of Natural Resources



John E. Frampton
Director

D. Breck Carmichael, Jr.
Deputy Director for
**Wildlife and
Freshwater Fisheries**

September 13, 2004

Joann M. Whitson, Chief, Environmental Analysis Branch
Dept. of the Air Force, HQ ACC/CEVP
129 Andrews St., Suite 102
Langley AFB, VA 23665-2969

RE: Shaw AFB Airspace Training Initiative

Dear Ms. Whitson,


I have checked with our biologists to see if the changes to the training airspace would cause any problems with rare, threatened or endangered species in the area. No issues have been reported to me.

We may have more issues with the one-acre training transmitter site to be located in Gamecock C. Since it doesn't appear that the location has been determined, I have enclosed a list of rare, threatened, and endangered species for Georgetown and Williamsburg counties as an indication of potential occurrences in the area. The highlighted ones have legal protection. The remaining species on the list are of concern in the state.

Please understand that our database does not represent a comprehensive biological inventory of the state. Fieldwork remains the responsibility of the investigator. As a professional courtesy, we ask that you acknowledge S.C. Heritage Trust as a source of information whenever you use this data.

If you need additional assistance, please contact me by phone at 803/734-3917 or by e-mail at HollingJ@dnr.sc.gov.

Sincerely,


Julie Holling
SC Department of Natural Resources
Heritage Trust Program

Enclosures

RARE, THREATENED, AND ENDANGERED SPECIES OF GEORGETOWN COUNTY

1

STATUS...GRANK...SRANK...SCIENTIFIC NAME.....COMMON NAME.....

ANIMALS:

FE/SE	G3	S3	ACIPENSER BREVIROSTRUM	SHORTNOSE STURGEON
SC	G3	S3	AIMOPHILA AESTIVALIS	BACHMAN'S SPARROW
FT/ST	G3	S3	CARETTA CARETTA	LOGGERHEAD
ST	G5	S3?	CHARADRIUS WILSONIA	WILSON'S PLOVER
ST	G5	S5	CLEMMYS GUTTATA	SPOTTED TURTLE
SC	G5	S3?	CONDYLURA CRISTATA	STAR-NOSED MOLE
SE	G3G4	S2?	CORYNORHINUS RAFINESQUII	RAFINESQUE'S BIG-EARED BAT
SE	G5	S2	ELANOIDES FORFICATUS	AMERICAN SWALLOW-TAILED KITE
ST	G2	S1	ELASSOMA BOEHLKEI	CAROLINA PYGMY SUNFISH
SC	G5	S1	FUNDULUS DIAPHANUS	BANDED KILLIFISH
FT/SE	G4	S2	HALIAEETUS LEUCOCEPHALUS	BALD EAGLE
SC	G2	S?	HETERODON SIMUS	SOUTHERN HOGNOSE SNAKE
SC	G4	SA	KOGIA BREVICEPS	PYGMY SPERM WHALE
SC	G4G5	S?	LASIURUS INTERMEDIUS	NORTHERN YELLOW BAT
SC	G5	S2	MICRURUS FULVIUS	EASTERN CORAL SNAKE
FE/SE	G4	S1S2	MYCTERIA AMERICANA	WOOD STORK
SC	G5	S3S4	NEOTOMA FLORIDANA	EASTERN WOODRAT
SC	G5T5	S3S4	NEOTOMA FLORIDANA FLORIDANA	EASTERN WOODRAT
SC	G5	SA	PHOCA VITULINA	HARBOR SEAL
FE/SE	G3	S2	PICOIDES BOREALIS	RED-CKCKADED WOODPECKER
SC	G4	S3S4	PITUOPHIS MELANOLEUCUS	PINE OR GOPHER SNAKE
ST	G4	S3	STERNA ANTILLARUM	LEAST TERN
SC	G5	S4	TYTO ALBA	BARN-OWL

PLANTS:

FT/ST	G2	S1	AMARANTHUS PUMILIUS	SEABEACH AMARANTH
SC	G4	S?	AMPHICARPUM MUEHLENBERGIANUM	BLUE MAIDEN-CANE
SC	G4?	S?	ANDROPOGON MOHRII	BROOMSEGE
SC	G5	S?	ANTHAENANTIA RUFA	PURPLE SILKSCALE
SC	G4?	S?	ARISTIDA CONDENSATA	PIEDMONT THREE-AWNED GRASS
SC	G4	SR	ARISTIDA SPICIFORMIS	PINE BARREN THREE-AWNED GRASS
RC	G4	S1	ASCLEPIAS PEDICELLATA	SAVANNAH MILKWEED
SC	G4	S?	BALDUINA UNIFLOKA	ONE-FLOWER BALDUINA
SC	G4?	S?	CALOPOGON BARBATUS	BEARDED GRASS-PINK
SC	G4?	S4	CANNA FLACCIDA	BANDANA-OF-THE-EVERGLADES
SC	G5	S?	CAREX AMPHIBOLA	NARROWLEAF SEDGE
SC	G4G5	S1	CAREX FOLLICULATA	LONG SEDGE
SC	G5	S1	CLADIUM MARISCOIDES	TWIG RUSH
SC	G3G5	S?	COREOPSIS GLADIATA	SOUTHEASTERN TICKSEED
SC	G5	S?	CROTONOPSIS LINEARIS	NARROWLEAF RUSHFOIL
SC	G4?	S?	CYPERUS LECONTEI	LECONTE FLATSEDGE
RC	G3	S1	DIONAEA MUSCIPULA	VENUS' FLY-TRAP
SC	G4G5	S?	ELEOCHARIS ROBBINSII	ROBBINS SPIKERUSH
SC	G5	S?	ELEOCHARIS ROSTELLATA	BEAKED SPIKERUSH
SC	G5	S?	ELEOCHARIS VIVIPARA	VIVIPAROUS SPIKE-RUSH
SC	G3	S2	GENTIANA AUTUMNALIS	PINE BARREN GENTIAN
SC	G4	S?	HELIANTHEMUM GEORGIANUM	GEORGIA FROSTWEED
SC	G4	S3	ILEX AMELANCHIER	SARVIS HOLLY
SC	G3G5	S1?	IPOMOEA MACRORHIZA	LARGE-STEM MORNING-GLORY
SC	G5?	S1	ISOETES RIPARIA	RIVER BANK QUILLWORT
SC	G2G3	S?	LACHNOCAULON BEYRICHIANUM	SOUTHERN BOG-BUTTON
SC	G4G5	S?	LECHEA TORREYI	PIEDMONT PINWEED
NC	G3G5	S1	LILAEOPSIS CAROLINENSIS	CAROLINA LILAEOPSIS

RARE, THREATENED, AND ENDANGERED SPECIES OF WILLIAMSBURG COUNTY

1

STATUS...GRANK...SRANK...SCIENTIFIC NAME.....COMMON NAME.....
ANIMALS:

SE	G3G4	S2?	CORYNORHINUS RAFINESQUII	RAFINESQUE'S BIG-EARED BAT
FE/SE	G3	S2	PICOIDES BOREALIS	RED-CKCKADED WOODPECKER
SC	G2	S?	PLAGIOCHILA SULLIVANTII	
SC	G5	S4	SCIURUS NIGER	EASTERN FOX SQUIRREL

PLANTS:

SC	G4	S?	AMPHICARPUM MUEHLENBERGIANUM	BLUE MAIDEN-CANE
SC	G4?	S?	ANDROPOGON MOHRII	BROOMSEDGE
RC	G5	S2	CASTILLEJA COCCINEA	SCARLET INDIAN-PAINTBRUSH
SC	G3G5	S?	COREOPSIS GLADIATA	SOUTHEASTERN TICKSEED
SC	G5	S?	CYSTOPTERIS PROTRUSA	LOWLAND BRITTLE FERN
SC	G5	S?	FIMBRISTYLIS VAHLII	VAHL FIMBRY
SC	G5	S?	GALEARIS SPECTABILIS	SHOWY ORCHIS
SC	G3	S2	GENTIANA AUTUMNALIS	PINE BARREN GENTIAN
SC	G4	S?	HELENIUM PINNATIFIDUM	SOUTHEASTERN SNEEZEWEED
SC	G4	S?	HOTTONIA INFLATA	FEATHERFOIL
SC	G5	S1	HYDROLEA CORYMBOSA	CORYMB FIDDLELEAF
SC	G3	S?	HYPERICUM HARPERI	
SC	G4	S3	ILEX AMELANCHIER	SARVIS HOLLY
SC	G2G3	S?	LACHNOCAULON BEYRICHIANUM	SOUTHERN BOG-BUTTON
SC	G4	S2	LIPOCARPHA MICRANTHA	DWARF BULRUSH
SC	G2G3	S?	LOBELIA BOYKINII	BOYKIN'S LOBELIA
SC	G2G3	S?	MACBRIDEA CAROLINIANA	CAROLINA BIRD-IN-A-NEST
FE/SE	G2	S1	OXYPOLIS CANBYI	CANBY'S DROPWORT
SC	G4?	S?	PHYSOSTEGIA LEPTOPHYLLA	SLENDER-LEAVED DRAGON-HEAD
SC	G2	S?	PLAGIOCHILA SULLIVANTII	
SC	G3G4	S2	PLATANThERA INTEGRA	YELLOW FRINGELESS ORCHID
SC	G3	S1	POLYGALA HOOKERI	MILKWORT
SC	G5	S1S2	POLYGALA NANA	DWARF MILKWORT
SC	G2	S2	PTEROGLOSSASPIS ECRISTATA	CRESTLESS PLUME ORCHID
SC	G3	S2	RHEXIA ARISTOSA	AWNED MEADOWBEAUTY
SC	G4G5	SR	RHEXIA CUBENSIS	WEST INDIAN MEADOW-BEAUTY
SC	G3G4	S?	RHYNCHOSPORA BREVISETA	SHORT-BRISTLE BALDRUSH
FE/SE	G2	S2	SCIWALBIA AMERICANA	CHAFFSEED
SC	G4G5	S?	SIDEROXYLON LANUGINOSUM	GUM BUMELIA
SC	G4G5	S?	SIDEROXYLON RECLINATUM	
SC	G3	S?	SPIRANTHES LONGIARRIS	GIGANT SPIRAL LADIES'-TRESSES
SC	G5T4T5	SR	XYRIS DIFFORMIS VAR FLORIDANA	FLORIDA YELLOW-EYED GRASS
SC	G3G4	SR	XYRIS SEROTINA	ACID-SWAMP YELLOW-EYED GRASS
SC	G3G4	SR	XYRIS STRICTA	PINELAND YELLOW-EYED GRASS



United States Department of the Interior

FISH AND WILDLIFE SERVICE

176 Croghan Spur Road, Suite 200
Charleston, South Carolina 29407

September 13, 2004

Ms Joann Whitson
HQ ACC/CEVP
129 Andrews St., Site 102
Langley AFB, VA 23665-2969

Re: Airspace Training Initiative
Shaw AFB, South Carolina
FWS Log No: 4-6-04-T-502

Dear Ms. Whitson:

The U.S. Fish and Wildlife Service (Service) has reviewed your August 26, 2004, letter requesting information regarding endangered and rare species as related to the above-referenced project. The proposed project consists of creation and modification of training airspace, development of several one-acre training transmitter sites, and use of chaff and flares in the new and modified training space. The proposed project is located on Shaw Air Force Base, Sumter County, South Carolina.

We are providing a list of federally protected species and species of concern which have the potential to occur in Sumter County to aid you in determining the impacts your project may have on protected species. This list includes known occurrences and areas where the species has a high possibility of occurring. Records are updated continually and may be different from the following. This list should be used only as a guideline, not as the final authority.

<u>Common Name</u>	<u>Scientific Name</u>	<u>Status</u>
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Shortnose sturgeon	<i>Acipenser brevirostrum</i> *	E
Canby's dropwort	<i>Oxypolis canbyi</i>	E
Chaff-seed	<i>Schwalbea americana</i>	E
Southern Dusky Salamander	<i>Desmognathus auriculatus</i>	SC
Dwarf burhead	<i>Echinodorus parvulus</i>	SC
Boykin's lobelia	<i>Lobelia boykinii</i>	SC

Pineland plantain	<i>Plantago sparsiflora</i>	SC
Awed meadowbeauty	<i>Rhexia aristosa</i>	SC
Biltmore greenbrier	<i>Smilax biltmoreana</i>	SC
Bachman's sparrow	<i>Aimophia aestivalis</i>	SC
Henslow's sparrow	<i>Ammodramus henslowii</i>	SC
American kestrel	<i>Falco sparverius</i>	SC
Loggerhead shrike	<i>Lanius ludovicianus</i>	SC
Painted bunting	<i>Passerina ciris ciris</i>	SC
Madtom, broadtail	<i>Noturus sp 2</i>	SC

T- Federally Threatened, E- Federally Endangered, SC- Species of Concern

Shaw Air Force Base contains suitable habitat for several of the above listed species. Prior to construction of access roads or power lines to the transmitter sites, sites should be surveyed for listed and sensitive species. The Service also urges you to consider potential impacts of airspace expansion on migratory birds.

Thank you for the opportunity to provide comments on the proposed project. If you require additional assistance, please contact Lora Zimmerman at (843) 727-4707 ext. 23. In future correspondence concerning the project, please reference FWS Log No 4-6-04-T-502.

Sincerely,



Timothy N. Hall
Field Supervisor

TNH/LLZ



United States Department of the Interior

Fish and Wildlife Service

247 South Milledge Avenue
Athens, Georgia 30605

West Georgia Sub Office
P.O. Box 52560
Ft. Benning, Georgia 31905-2560

SEP 17 2004

Coastal Sub Office
4270 Norwich Street
Brunswick, Georgia 31520

Ms. Joann M. Whitson
Chief, Environmental Analysis Branch
Department of the Air Force
HQ ACC/CEVP
129 Andrews Street, Suite 102
Langley Air Force Base, Virginia 23665-2969

Dear Ms. Whitson:

The U. S. Fish and Wildlife Service (Service) has reviewed your August 26, 2004, letter which we received on September 13, 2004 regarding training flights from Shaw Air Force Base using the Bulldog A and B Military Operations Area (MOA) in Georgia. The Bulldog MOA covers Burke, Emanuel, Glascock, Jefferson, Jenkins, Johnson and Washington Counties.

In your letter, you requested information on potential impacts to federally listed species that could occur in the Bulldog MOA. The county lists of federally listed species for the above counties can be found at our website: athens.fws.gov.

Because of the high speed jet craft which may be flying at low altitudes, we are particularly concerned about federally listed wood storks (*Mycteria americana*) and bald eagles (*Haliaeetus leucocephalus*) that nest and frequently travel in the Bulldog A and B MOA.

Wood storks are large long-legged wading birds about 33-44 inches in height with a wingspan of 59-65 inches and weigh 5-8 pounds. In Georgia, breeding usually begins in March. Incubation takes 27-32 days. Young storks begin learning to fly at about eight weeks of age. However, the young often remain at the colony and return to the nest to be fed by adults until around 12 weeks of age. Wood storks use a variety of feeding sites in both freshwater and estuarine wetlands to obtain adequate forage and fly long distances to feed and obtain food for the young.

Wood storks typically fly more like soaring hawks and vultures than like other birds, which flap their wings constantly. Although they can and do use standard flapping flight for short trips, they prefer to soar in convective currents or thermals, circling in these rising pockets of warm air to reach altitudes of 1000 - 3000 feet before gliding to their

destination or the next thermal. By soaring, storks can travel as far as 30-40 miles to reach a feeding site with low energy cost to the birds. Storks often roost in habitat similar to where they nest, such as in trees surrounded by water. However, it is also common to find flocks of storks "resting" on mud flats and on the ground near feeding sites. These sites are probably "day roosts", where the storks are waiting before starting to feed depending on changing water levels or the activity of their prey. Many species of fish are more active and "catchable" at different times of the day.

Beginning in late summer, wood storks gather into communal roost along the coast and may move out of the Bulldog MOA. According to the "Habitat Management Guidelines for the Wood Stork in the Southeast Region", there should not be any aircraft operation closer than 500 feet of a nesting colony. However, the safety of the pilots and aircraft should be considered with these large birds frequenting the Bulldog MOA from March to the late summer or early fall.

Bald eagles are 30 – 43 inches long and have a wingspan of 72-98 inches and weigh from 8-12 pounds. Bald eagles almost always nest near open water, usually in a large open-topped pine, often on high ground if available. Eagles form permanent pair bonds and use a nest year after year. In Georgia, courtship and nest-building typically occur in October and November. Two to three eggs are then laid in December or January and are incubated for about 35 days. The eaglets fledge at about 10-12 weeks. Parental care may extend 4 to 6 weeks after fledging. Adult bald eagles from Georgia are essentially non-migratory, but they might wander away from the nesting area until the next nesting season. Bald eagles from the northern United States will migrate down to Georgia in the winter. The most critical time for eagles is during nesting, which occurs in the winter.

According to the "Habitat Management Guidelines for the Bald Eagle in the Southeast Region", the Primary Zone (750 to 1,500 feet outward from the nest tree) is the most critical area for nesting eagles. Fixed wing aircraft operation within 500 feet vertical distance or 1000 feet horizontal distance from a nest would likely be detrimental while eagles are present and, therefore, should be restricted in the Primary Zone during the nesting period, but not necessarily during the non-nesting period.

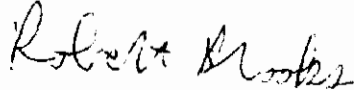
The Secondary Zone for bald eagles is from the Primary Zone to one mile. Low level aircraft operations should only take place in this zone during the non-nesting period.

According to our latest wood stork data (2003 nesting season), there were two large rookeries in **Jenkins County**. There is also a large wading bird rookery in Emanuel County that could contain thousands of nesting birds. Wood storks are often attracted to rookeries with other nesting wading birds. According to the 2004 eagle nesting data, **Jefferson County** has four active eagle nests.

This information covers the two most obvious federally listed species that could be affected by these training flights. However, the seven county lists should be used to determine if there is habitat on the ground at the one-acre training transmitter sites that could be used by any of the other federally listed species.

We appreciate the opportunity to comment on these training exercises which could occur in the Bulldog MOA. We would appreciate receiving your correspondence on Shaw Air Force Base directly to our Brunswick, Georgia office (Coastal Sub Office) to avoid delays in responding to your requests. If you have any questions or require further information, please contact staff biologist Kathy Chapman at 912-265-9336 ext. 24 or email kathy_chapman@fws.gov.

Sincerely,

A handwritten signature in cursive script, appearing to read "Sandra S. Tucker".

for Sandra S. Tucker
Field Supervisor

cc:
FWS, Athens, Georgia

STATE OF SOUTH CAROLINA
State Budget and Control Board
OFFICE OF STATE BUDGET

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GOVERNOR

GRADY L. PATTERSON, JR.
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FRANK W. FUSCO
EXECUTIVE DIRECTOR

1201 Main Street, Suite 950
COLUMBIA, SOUTH CAROLINA 29201
(803) 734-2780

LES BOLES
DIRECTOR

September 20, 2004

Joann M. Whitson
Department of the Air Force
HQ ACC/CEVP
129 Andrews Street, Suite 102
Langley AFB, VA 23665-2969

Project Name: Shaw Air Force Base (AFB) Airspace Training Initiative

State Application Identifier: SC040804-16

Dear Ms. Whitson:

The State Clearinghouse, Office of State Budget, has conducted an intergovernmental review of the project referenced above as provided by Presidential Executive Order 12372. All comments received, if any, as a result of the review are enclosed for your information.

The Clearinghouse does not have information on the Federal agency's review status. Please contact your Federal grantor agency with any questions concerning the status of your application.

The State Application Identifier indicated above should be used in any future correspondence with this office.

Sincerely,

A handwritten signature in cursive script that reads "Jean Manheimer".

Jean Manheimer
Fiscal Manager, Grant Services



September 22, 2004

Joann M. Whitson
Chief Environmental Analysis Branch
HQ ACC/CEVP
129 Andrews St., Suite 102
Langley AFB, VA 23665-2969

Re: Shaw Air Force Base Airspace Training Initiative

Dear Ms. Whitson:

Thank you for the memo and overview regarding the United States Air Force's Environmental Assessment for Shaw Air Force Base dated August 26th, which we received on August 30th.

The work described in the proposal includes the construction of a 1-acre transmitter site in eastern Williamsburg County, which may have an effect on historic properties or archaeological sites in the vicinity. In order to comment properly on the effects of the construction, we will need more detailed information including maps of the location and a description of the scale of the proposed transmitter.

Our office maintains the Cultural Resource Information System (CRIS) database of identified historic sites in South Carolina, which is available to you for conducting research. Additionally the South Carolina Institute of Archaeology and Anthropology (SCIAA) maintains a database of archaeological sites in the state that may not be included in the CRIS. However, because no comprehensive survey has been completed for Williamsburg County, field research may need to be done to identify historic properties near the site that do not appear in the CRIS or SCIAA databases. I have enclosed a pamphlet that may help you with the resources available in our office.

These comments are provided as evidence of your consultation with the State Historic Preservation Office pursuant to Section 106 of the National Historic Preservation Act, as amended. If you have questions, please call me at (803) 896-6169.

Sincerely,

Richard Sidebottom
Review and Compliance Coordinator
State Historic Preservation Office

cc: Science Applications International

0.1.505-1112-12

1835 Assembly Street, Room 950, Columbia, South Carolina 29201

October 8, 2004

Jo Ann Whitson,
Chief, Environmental Analysis Branch
Department of the Air Force
Headquarters of the Air Combat Command
Langley Air Force Base Virginia

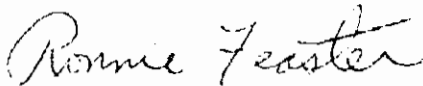
Ref: Shaw Air Force Base (AFB) Airspace Training Initiative- Environmental
Assessment

Dear Ms. Whitson:

Under the Farmland Protection Policy Act, the Natural Resources Conservation Service (NRCS) has the responsibility for assessing the impact of federal actions on prime farmland and soils of statewide importance. The areas occupied by the transmitting towers and associated components are the only sites on which there could be potential impacts on prime farmlands. The land involved at the transmitter sites is a minor portion of the prime farmlands and soils of statewide importance in the respective counties. However, if you need a specific assessment of prime farmlands and soils of statewide importance, we need to have the sites located on a map such as a topographic map from which we can locate the exact site on the ground.

If you have any questions, you may contact Gene Hardee at (803) 253-3893.

Sincerely,



RONNIE FEASTER
State Resource Conservationist

cc:

Gene Hardee, Conservation Agronomist, NRCS, Columbia, SC

GEORGIA DEPARTMENT OF TRANSPORTATION

OFFICE OF INTERMODAL PROGRAMS



STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE OF INTERMODAL PROGRAMS

EDWARD S. RATIGAN
MANAGER
AVIATION PROGRAMS

276 MEMORIAL DRIVE, S.W.
ATLANTA, GA 30303-3743

PHONE: 404/651-8221
FAX: 404/657-4221
E-Mail: ED.RATIGAN@dot.state.ga.us

FAX TRANSMITTAL

Date: 15 October 2004

Number called: (757) 764-1975

Deliver to: HQ ACC.CEVP
129 Andrews Street, Suite 102
Langley AFB, VA 23065-2769
Attention: Ms Linda DeVine

From: Georgia Department of Transportation, Aviation Programs

Total pages: 6

Comments: Attached are comments from the Georgia DOT, Aviation Programs on the Shaw AFB Airspace Training Initiative. The original letter was posted today, with this fax transmittal meeting the October 15, 2004 date for comments.



Department of Transportation

HAROLD E. LINNENKOHL
COMMISSIONER
(404) 656-5206

PAUL V. MULLINS
CHIEF ENGINEER
(404) 656-5277

State of Georgia
#2 Capitol Square, S.W.
Atlanta, Georgia 30334-1002

October 15, 2004

LARRY E. DENT
DEPUTY COMMISSIONER
(404) 656-5212

EARL L. MAHFUZ
TREASURER
(404) 656-5224

HQ ACC/CEVP
129 Andrews Street, Suite 102
Langley AFB, VA 23065-2769
Attn: Ms. Linda DeVine

RE: Shaw Air Force Base Airspace Training Initiative

The Georgia Department of Transportation-Aviation Programs is pleased to offer comments on the Airspace Training Initiative that Shaw Air Force Base is considering that would affect the existing Bulldog MOAs and five Georgia airports.

We are very concerned with the lack of notification the proposed changes and the outreach meetings received. The Georgia DOT-Aviation Programs, responsible for aviation matters in Georgia, received no notification and only learned of the outreach meetings through conversations with another state. The communities we subsequently contacted, all impacted by the Bulldog MOAs and the proposal, had not been notified either and were unaware of the initiative and meetings. The attendance at the Millen meeting was a direct result of our contact with the affected communities the day before the meeting.

The outreach program is the method the military has chosen to inform the public about the training initiative and to gather input from the communities about their concerns in order to identify alternatives. If the military does not adequately inform the public of the meetings, how can this be accomplished? We request the military conduct an additional series of outreach meetings in Georgia. We request the military's mailing list be updated to provide some legitimacy to the notification process. Our office can provide a mailing list of communities, airport sponsors, airspace users and other interested parties in the impacted areas.

Shaw AFB Airspace Training Initiative
GDOT Comments
Page 2

The impact the proposed alternatives will have on five Georgia's airports and the airspace in the eastern part of the state is significant. The alternatives presented at the outreach meeting are major modifications to the existing MOAs and further restrict accessibility by public aviation to the airports and airspace in the region. The alternatives do not take into consideration changes that have occurred to these airports and traffic in the area. Since the Bulldog MOAs were established in the early 1980's, airports such as Louisville, Sandersville, and Swainsboro have undertaken aggressive airport development programs in an effort to stimulate local and regional economic development. Subsequently, millions of dollars have been spent by the state, FAA, and local governments to enhance these facilities. No alternative presented acknowledges the increased importance of these airports, their plans for future development, and their dependence on unrestricted access to the national airspace system.

We recommend an Economic Impact Study be commissioned to determine the affect of the proposed alternatives on the local economies. We are in a time when communities must aggressively pursue every opportunity to recruit new business and industry and further economic development. Airports are an integral part of the marketing package communities utilize. If a community loses full use of their airport and adequate accessibility to the national airspace system they lose a major component of their transportation infrastructure. An Economic Impact Study would assist in identifying the need for viable alternatives that would not adversely affect local economies and initiatives.

As the mission of the military has changed requiring modifications to the Bulldog MOAs, so have changes occurred in Georgia's airport system. These changes must be collectively analyzed and new alternatives developed for consideration.

As mentioned earlier, the communities of Sandersville, Swainsboro and Louisville have expended significant resources to improve their airports. With the current and future demands on these airports there must be alternative proposals that can be considered in addition to what has been presented. Alternatives would include consideration for the following:

Sandersville located on the far western boundary of Bulldog MOA, has applied to the FAA and state for funding for the installation of a localizer to provide improved instrument landing capability into the airport. Consideration should be given to modifying the western boundary of Bulldog A to exclude Sandersville and the airport's airspace.

Shaw AFB Airspace Training Initiative
GDOT Comments
Page 3

Swainsboro located along the southern boundary of Bulldog B is in the final phase of completing a nearly \$10 million expansion to its airport. Recent improvements to the airport include a runway extension to 6,000 feet, construction of a full parallel taxiway, aircraft parking apron, terminal building and corporate hangars and they are presently slated to install a full Instrument Landing System (ILS). The new floor proposed for Bulldog B around Swainsboro will be reduced from 10,000' to 500' above the ground effectively closing the airport to IFR operations. Additional negative impacts include those to commercial operations that currently depend on full-time instrument access to the airport. Alternatives for Bulldog airspace should include changes to the existing MOA boundary to remove Swainsboro from Bulldog to accommodate their growth and future instrument capability.

Louisville is identified as a Regional Airport in the state airport system. During the last four years more than \$3 million in state, federal and local funds have been used to extend the runway and make other airport improvements to promote and encourage economic development. Louisville is presently working with the state and FAA to secure an instrument approach procedure into their airport. Our office has committed to fund the installation of a Localizer at this airport. Louisville is under Bulldog A and the current proposal would be no change to their existing situation. However, modifications to the existing Bulldog A airspace should be considered to provide IFR corridors to allow access to Louisville. The restrictions of the current airspace and the inability of IFR traffic to traverse Bulldog is a serious issue. This problem will be compounded for Louisville with the establishment of an instrument approach. The continued development and expansion of the Louisville airport and the need to assess it requires that the airspace dedicated to Bulldog A and the procedures for its use be reevaluated.

Other airports impacted by Bulldog and the current Initiative include those located in Waynesboro and Millen. Both communities have general aviation facilities that are pursuing expansion and development. These airports will be negatively impacted by the proposals presented at the outreach meeting. Alternatives must be examined that will allow for the growth and development of these airports and communities.

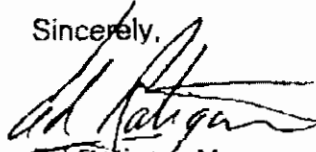
Shaw AFB Airspace Training Initiative
GDOT Comments
Page 4

The State of Georgia is a strong supporter of the military. However, we are concerned with the very flawed beginning of this airspace initiative to change the Bulldog MOAs. We request the military make a realistic effort to gather public input and conduct additional outreach meetings at communities impacted by the Bulldog MOAs. We request that consideration be given to developing and presenting additional alternatives that would address the negative impacts for our five Georgia airports while still serving the training needs of the military.

We are all very aware of the reevaluation of military bases that will be addressed in 2005 by the Base Realignment and Closure (BRAC) Commission. There will be changes throughout the nation for the military including base closures and a shifting of units and missions to other facilities. We question the need to begin the process of expanding the Bulldog MOAs when the mission of Shaw AFB and others may change in the near future. We recommend that any action to modify Bulldog A and B be deferred until after the BRAC review is completed and the new missions and needs of the military bases are determined.

Please contact me at (404) 651-9221, if our office can be of assistance. We look forward to hearing from you.

Sincerely,



Ed Ratigan, Manager
Aviation Programs

cc: The Honorable Zell Miller, U.S. Senator
The Honorable Saxby Chambliss, U.S. Senator
The Honorable Max Burns, U.S. Congressman
The Honorable Jim Marshall, U.S. Congressman
The Honorable Jack Hill, State Senator
The Honorable Hugh Gills, Sr., State Senator
The Honorable Don Cheeks, State Senator
The Honorable Alberta Anderson, State Representative
The Honorable Larry Parrish, State Representative
The Honorable D. Byron Burt, Mayor, City of Louisville
Don Rhodes, City Manager, City of Louisville
Tom Watson, Louisville Airport Committee
The Honorable Albert Rocker, Mayor, City of Millen

Shaw AFB Airspace Training Initiative
GDOT Comments
Page 5

cc: The Honorable James Henry, Chairman, Jenkins County Commission
Carol Cates, County Administrator, Jenkins County
Keith Brock, Millen Airport Committee
The Honorable Horace Daniel, Chairman, Washington Co. Commission
The Honorable Jimmy Andrews, Mayor, City of Sandersville
Lawrence Mathis, Chairman, Washington County Airport Authority
The Honorable David Oglesby, Chairman, Emanuel County Commission
The Honorable Ricky Stevens, Mayor, City of Swainsboro
Al Lawson, City Administrator, City of Swainsboro
Ezra Price, County Administrator, Emanuel County
Ken Warnock, Chairman, Swainsboro-Emanuel Co. Airport Commission
The Honorable James Dixon, Chairman, Burke County Commission
The Honorable Jesse Stone, Mayor, City of Waynesboro
Merv Waldrop, County Administrator, Burke County
The Honorable Dollye Ward, Mayor, City of Wrens
The Honorable Gardner Hobbs, Chairman, Jefferson County Commission
Barbara Jackson, Georgia State Clearinghouse
Ray Luce, Georgia Department of Natural Resources-SHPO
Jimmy Johnston, Georgia Department of Natural Resources-EPD

2553 Airport Blvd
West Columbia, South Carolina 29170
Phone (803) 896-6262 Fax (803) 896-6277

facsimile transmittal

To: MS JUDY LEWIS Fax: _____
From: S.C. DEPT OF COMMERCE Date: 15 OCT 04
Re: TRAINING INITIATIVE Pages: _____
CC: _____

☒ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle



Written Comment Sheet
Community Outreach Meeting for the Airspace Training Initiative
Environmental Assessment (EA)

Thank you for your input!

DATE: 15 OCT 04

PLEASE PRINT

PLEASE SEE ATTACHED

*** CONTINUE ON BACK FOR MORE SPACE ***

NAME: <u>WALTER JOHNSON, ACTING DIRECTOR</u>
ORGANIZATION: <u>S.C. DEPT OF COMMERCE, DIVISION OF AERONAUTICS</u>
ADDRESS: <u>P.O. Box 280068</u>
CITY/STATE/ZIP: <u>COLUMBIA, SOUTH CAROLINA 29228-0068</u>

- ☒ Yes, please include me in the mailing list for distributing the EA. I would like to receive a copy of the EA in: hard copy format CD (electronic format)
- ☐ No, please do not include me in the mailing list for distributing the EA. I do not wish to receive an EA or further information.

Your name and address will be used to compile a mailing list for distributing future information regarding the Airspace Training Initiative Environmental Assessment (EA). Names and addresses will not be published in the EA. However, by including your name and address, it will become part of the EA public record.

Please hand this form in or mail before OCTOBER 15, 2004 to:

HQ ACC/CEVP
129 Andrews Street, Suite 102
Langley AFB, VA 23665-2769
Attn: Ms. Linda DeVine

SOUTH CAROLINA DEPARTMENT OF COMMERCE

SUBJECT: The Division of Aeronautics Position on the Shaw Air Force Base
Airspace Training Initiative

1. Problem:
 - a. Proposed changes by the Air Force to existing Gamecock MOA's will impede north/south IFR air traffic flow through the eastern one third of South Carolina by creating a 90-mile-wide east/west block of MOA's.
 - b. The most critical impact and our primary concern is for transient IFR aircraft that routinely operate between 7000 feet and FL180. When the Gamecock MOAs are active, these IFR aircraft will be required to deviate an unreasonable distance off course in order to clear the MOA.
2. Recommendation: The following recommendation will provide the Air force an acceptable alternative which meets training area requirements and will also provide reasonable routing and efficiency for IFR aircraft transitioning north and south through the MOA area.
 - a. Relocate the eastern boundary of Gamecock D to the west as necessary to open up V-437 as a north/south unimpeded corridor for unlimited IFR flight operations. The area taken up by the V-437 corridor can be recovered by adjusting the western boundary of Gamecock D.
 - b. Create Gamecock E from the current proposed western boundary to join the newly establishes western boundary of Gamecock D.
 - c. Establish the floor of each MOA as proposed.

Date: 5 January 2005

Number called: (757) 764-1975

Deliver to: HQ ACC.CEVP
129 Andrews Street, Suite 102
Langley AFB, VA 23665-2769
Attention: Ms Linda DeVine

From: Georgia Department of Transportation, Aviation Programs

Total pages: 5

Comments: Attached are comments from the Georgia DOT, Aviation Programs
on the Shaw AFB Airspace Training Initiative.



Department of Transportation

HAROLD E. LINNENKOHL
COMMISSIONER
(404) 656-5206

PAUL V. MULLINS
CHIEF ENGINEER
(404) 656-5277

*State of Georgia
#2 Capitol Square, S.W.
Atlanta, Georgia 30334-1002*

January 5, 2005

LARRY E. DENT
DEPUTY COMMISSIONER
(404) 656-5212

EARL L. MAHFUZ
TREASURER
(404) 656-5224

HQ ACC/CEVP
129 Andrews Street, Suite 102
Langley AFB, VA 23665-2769
Attn: Ms. Linda DeVine

RE: Shaw Air Force Base Airspace Training Initiative

The Georgia Department of Transportation – Aviation Programs is pleased to offer comments on the Shaw Air Force Base Airspace Training Initiative during this extended scoping period.

We have serious concerns regarding the proposed changes to the Bulldog MOA's. Our letter of October 15, 2004 outlines many of our concerns and we expect those concerns to be considered in the scoping and addressed in the proposed Environmental Impact Statement (EIS).

The notification process for this initiative has been flawed. In addition to earlier concerns, we now understand the Georgia State Clearinghouse has not been informed of this airspace effort. No information has been provided to the Clearinghouse for their circularization to other state agencies and interested parties. We were assured at the community outreach meetings that the State Clearinghouse had this information and that you were relying on them to disseminate the information. Based on conversations with the State Clearinghouse as recently as yesterday, they have not received information on this initiative. Communication on the proposal has been less than adequate and we request the process be delayed until adequate dissemination of the proposal can be made.

We are concerned about the proposed airspace initiative's impact on Georgia's airports. Alternatives should be identified and examined that will not impact the existing airports underlying Bulldog. These communities have expended significant resources to improve their airports to stimulate local and regional economic development. No alternatives have been explored that recognizes the importance of these airports and how the military could accommodate them and

Shaw Air Force Base Airspace Training Initiative
GDOT Comments
Page 2

still satisfy their mission. There are airports near the boundaries of Bulldog that could be eliminated from the MOA. Swainsboro and Sandersville are two communities that have made substantial investments in their airports. In addition to expansion of their airport, Swainsboro has been identified to receive an ILS (Instrument Landing System) and Sandersville will be installing a Localizer. Any alteration of Bulldog airspace should include the elimination of these airports from the MOA. Other airports within the existing MOA are expanding and need full access through Bulldog for both VFR and IFR traffic. Alternatives should consider modifications to Bulldog airspace or the establishment of procedures that will accommodate traffic into these communities.

We request an Economic Impact Study be accomplished to determine the impact the proposed airspace initiative will have on the areas communities. The proposed initiative will be detrimental to aircraft operations and the usability of airports within and adjacent to the Bulldog airspace. Losing full use of part of their transportation infrastructure will have an impact on the local economies. A study to identify these impacts and the impacts of alternative airspace alignments would be beneficial to the evaluation process.

The proposed expansion of Bulldog impacts a Victor Airway (V-70) that transverses Bulldog B. This is a major access route around Bulldog A that will either be eliminated or restricted under this proposal. What is the impact of this initiative on this airway? How will traffic be accommodated?

An issue we raised in our previous comments concern the need for the expansion of Bulldog. What is the present and historic usage of the existing Bulldog MOA's? What is the usage for other military airspace that could conceivably accommodate the proposed mission? What is the military's requirement for training that requires this modification to Bulldog airspace?

Noise is a major concern. The proposal lowers the floor of airspace in Bulldog B to 500 feet above ground. How do you propose to address the noise issue? Existing problems in Bulldog A, with the same floor, have gone unresolved for years. The military has not had an answer to or is unwilling to address this existing problem. What will change under this proposal? How will noise conflicts be resolved? Noise is a factor of fleet, altitude, time of day, and usage levels. What is the proposed usage of the airspace and what supporting data will be used to determine noise impacts?

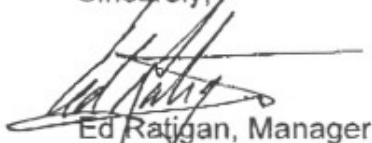
Shaw Air Force Base Airspace Training Initiative
GDOT Comments
Page 3

There has not been any detailed information on the proposed use of training flares and chaff in this airspace. Our concerns would include the potential impact on residential areas, farmland, timber areas and wildlife areas that underlie the MOA. What is being proposed that would preclude any incident on the ground or impact to the environment?

The state would like to be a consulting party to the EIS. We believe that the issues we raised should be addressed and that it would be in the best interest of all parties for the state to be an active participant in the process. I would also request a written response to the questions and issues we have raised here and in our letter of October 15, 2004.

We appreciate the opportunity to comment on this initiative and look forward to hearing from you. Please contact me at (404) 651-9221 if my office can be of any assistance.

Sincerely,



Ed Ratigan, Manager
Aviation Programs

cc: The Honorable Saxby Chambliss, U.S. Senator
The Honorable Johnny Isakson, U.S. Senator
The Honorable John Barrow, U.S. Congressman
The Honorable Jim Marshall, U.S. Congressman
The Honorable Jack Hill, State Senator
The Honorable Hugh Gills, Sr., State Senator
The Honorable Don Cheeks, State Senator
The Honorable Alberta Anderson, State Representative
The Honorable Larry Parrish, State Representative
The Honorable D. Byron Burt, Mayor, City of Louisville
Don Rhodes, City Manager, City of Louisville
Tom Watson, Louisville Airport Committee
The Honorable Albert Rocker, Mayor, City of Millen

Shaw AFB Airspace Training Initiative
GDOT Comments
Page 4

cc: The Honorable James Henry, Chairman, Jenkins County Commission
Carol Cates, County Administrator, Jenkins County
Keith Brock, Millen Airport Committee
The Honorable Horace Daniel, Chairman, Washington Co. Commission
The Honorable Jimmy Andrews, Mayor, City of Sandersville
Lawrence Mathis, Chairman, Washington County Airport Authority
The Honorable David Oglesby, Chairman, Emanuel County Commission
The Honorable Ricky Stevens, Mayor, City of Swainsboro
Al Lawson, City Administrator, City of Swainsboro
Ezra Price, County Administrator, Emanuel County
Ken Warnock, Chairman, Swainsboro-Emanuel Co. Airport Commission
The Honorable James Dixon, Chairman, Burke County Commission
The Honorable Jesse Stone, Mayor, City of Waynesboro
Merv Waldrop, County Administrator, Burke County
The Honorable Dollye Ward, Mayor, City of Wrens
The Honorable Gardner Hobbs, Chairman, Jefferson County Commission
Barbara Jackson, Georgia State Clearinghouse
Ray Luce, Georgia Department of Natural Resources-SHPO
Jimmy Johnston, Georgia Department of Natural Resources-EPD

Georgia Department of Natural Resources
Wildlife Resources Division

Noel Holcomb, Commissioner
Dan Forster, Division Director

Nongame Wildlife & Natural Heritage Section
Georgia Natural Heritage Program
2117 U.S. Hwy. 278 S.E., Social Circle, Georgia 30025-4714
(770) 918 6411, (706) 557-3032

April 15, 2005
Ann Moser, Wildlife Biologist
Science Application International Corporation
405 S. 8th Street, Suite 301
Boise, Idaho 83709

Subject: Known or Potential Occurrences of Special Concern Plant and Animal Species on or near Potential Sites for Training Transmitters, Burke and Jefferson Counties, Georgia

Dear Ms Moser:

This is in response to your request of April 5, 2005. There are no Natural Heritage Database records in our database within a three-mile radius of the project site.

Recommendations:

Although there are no records of rare species occurrences, this may reflect a lack of survey information for these areas. Enclosed is a list from Burke County that should aid in assessing the potential for rare species within the area of concern. We hope that construction of the training transmitters would be done to minimize any negative environmental effects.

Disclaimer:

Please keep in mind the limitations of our database. The data collected by the Georgia Natural Heritage Program comes from a variety of sources, including museum and herbarium records, literature, and reports from individuals and organizations, as well as field surveys by our staff biologists. In most cases the information is not the result of a recent on-site survey by our staff. Many areas of Georgia have never been surveyed thoroughly. Therefore, the Georgia Natural Heritage Program can only occasionally provide definitive information on the presence or absence of rare species on a given site. Our files are updated constantly as new information is received. **Thus, information provided by our program represents the existing data in our files at the time of the request and should not be considered a final statement on the species or area under consideration.**

If you know of populations of special concern species that are not in our database, please fill out the appropriate data collection form and send it to our office. Forms can be obtained through our web site (<http://www.georgiawildlife.com>) or by contacting our office. If I can be of further assistance, please let me know.

Sincerely,



Greg Krakow

Locations of Special Concern Animals, Plants and Natural Communities in Burke County, Georgia

"US" indicates species with federal status (Protected, Candidate or Partial Status). Species that are federally protected in Georgia are also state protected.

"GA" indicates Georgia protected species.

Find details for the species below on our special concern lists for [animals](#) and [plants](#).

Date of information - 10/22/2004

Animals

- GA · *Clemmys guttata* Spotted Turtle
- *Cyprinella callisema* Ocmulgee Shiner
- *Cyprinella leedsi* Bannerfin Shiner
- *Cyprinella nivea* Whitefin Shiner
- *Etheostoma fricksium* Savannah Darter
- GA · *Fusconaia masoni* Atlantic Pigtoe Mussel
- *Hemidactylium scutatum* Four-toed Salamander
- *Heterodon simus* Southern Hognose Snake
- *Nerodia floridana* Florida Green Water Snake
- *Pituophis melanoleucus mugitus* Florida Pine Snake
- *Rana capito* Gopher Frog

Plants

- GA · *Ceratiola ericoides* Rosemary
- *Dryopteris celsa* Log Fern
- GA · *Elliottia racemosa* Georgia Plume
- *Lindera subcoriacea* Bog Spicebush
- GA · *Nestronia umbellula* Indian Olive
- US · *Oxypolis canbyi* Canby's Dropwort
- *Quercus austrina* Bluff White Oak
- GA · *Sarracenia minor* Hooded Pitcherplant
- US · *Sarracenia rubra* Sweet Pitcherplant
- GA · *Scutellaria ocmulgee* Ocmulgee Skullcap
- *Silene caroliniana* Carolina Pink
- GA · *Stewartia malacodendron* Silky Camellia

Natural Communities

- *CP MESIC BROADLEAF DECID.-BROADLEAF EVER. FOREST* Coastal Plain Mesic Ravine Forest

NOTE: This is a working list and is constantly revised ([see element occurrence data disclaimer](#)). For the latest changes, acknowledgment of numerous sources, interpretation of data, or other information connected with this list, please contact:

Greg Krakow - Data Manager
Georgia Department of Natural Resources
Wildlife Resources Division
Georgia Natural Heritage Program
2117 U.S. Highway 278 S.E.
Social Circle, Georgia 30025-4714
Phone: (770)918-6411
Fax: (706)557-3033
Click [here](#) to send e-mail



OFFICE OF PLANNING AND BUDGET

Sonny Perdue
Governor

Timothy A. Connell
Director

*** IMPORTANT! / URGENT! ***

GEORGIA STATE CLEARINGHOUSE MEMORANDUM EXECUTIVE ORDER 12372 REVIEW PROCESS

TO: MR. RON METHIER
AIR PROTECTION BRANCH

MR. HAL WILSON
DOT OFFICE OF INTERMODAL PROGRAMS

MR. DAVE VAN DE WEGHE
CENTRAL SAVANNAH RIVER RDC

MS. ROBIN B. NAIL
HEART OF GA ALTAMAHA RDC

FROM: Barbara Jackson
Georgia State Clearinghouse

DATE: May 31, 2005

SUBJECT: GA 050531001 -- Preparation of EA for Shaw Air Force Base Airspace Training Initiative in Existing and Proposed Airspace in SC & GA

In August 2004, the Dept. of the Air Force issued the attached letter to announce preparation of an EA for the above-referenced project and to solicit comments from Georgia State Clearinghouse's project reviewers. However, this office did not receive our copy of this letter and, therefore, did not coordinate the review process. Consequently, there has been some confusion between this office and Shaw AFB. In November 2004, there was a follow-up postcard sent extending the review period to January 5, 2005, and we believe that was sent to you.

Page 2

The Dept. of the Air Force has requested that I officially coordinate the review of the above-mentioned project. We are asking that you send us your comments, if possible, within the next two weeks. If you have already responded directly to someone, please still attach your response to the enclosed SC-3 form and return to me.

FYI -- at a later date, a more indepth report will be sent to our office and we will coordinate your review of that.

Thank you for your cooperation in this matter, and we apologize for the confusion and any inconvenience. Please call me at 404-656-3855 with any questions.

/bj

Attachments



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR COMBAT COMMAND
LANGLEY AIR FORCE BASE VIRGINIA

26 AUG 2004

MEMORANDUM FOR: Barbara Jackson
Georgia State Clearinghouse
270 Washington Street, SW, 8th Floor
Atlanta GA 30334

FROM: HQ ACC/CEVP
129 Andrews St., Suite 102
Langley AFB VA 23665-2969

SUBJECT: Shaw Air Force Base (AFB) Airspace Training Initiative

1. The United States Air Force (Air Force) is in the process of preparing an Environmental Assessment (EA) to assess the potential environmental consequences of a proposal to implement the Airspace Training Initiative in existing and proposed airspace in South Carolina and Georgia associated with Shaw Air Force Base (AFB), South Carolina. This proposal is intended to provide more effective and realistic training conditions for the Shaw AFB 20th Fighter Wing and the McEntire Air National Guard Station's 169th Fighter Wing.

2. The proposal consists of several elements: creation and modification of training airspace, development of several one-acre training transmitter sites, and use of chaff and flares in the new and modified training airspace. Three alternatives, including a no-action alternative, will be analyzed in the EA. Attachment 1 is a map that depicts the proposed airspace modifications and areas for potential training transmitter locations. Attachment 2 provides a brief narrative description of the proposed Airspace Training Initiative.

3. The Air Force plans to hold several community outreach meetings in the affected areas of South Carolina and Georgia to solicit public and government agency comments on the proposal and assist us in shaping the analysis. Community outreach meetings will be held at locations listed below from 5:30 to 7:30 p.m.

Monday, September 27, 2004. Manning High School Lecture Hall, Manning, SC.

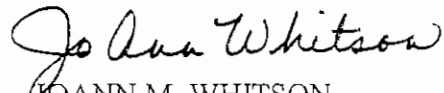
Tuesday, September 28, 2004. Kingstree Senior High School Cafeteria, Kingstree, SC.

Wednesday, September 29, 2004. JB Beck Middle School Auditorium, Georgetown, SC.

Thursday, September 30, 2004. City of Millen Community House, Millen, GA.

During the meetings, the Air Force will describe the proposed action and alternatives, the National Environmental Policy Act (NEPA) process, and outline the opportunities for public involvement. We look forward to receiving your comments as part of this process.

4. If you have any specific items of interest about the proposal, we would like to hear from you. Please contact the 20 FW/PA, Ms. Judy Lewis or First Lieutenant Suzanne Ovel, (803) 895-2024 or the EA Project Manager, Ms. Linda DeVine, at the above address. Thank you for your assistance in this matter.

A handwritten signature in cursive script that reads "Jo Ann Whitson".

JOANN M. WHITSON

Chief, Environmental Analysis Branch

2 Atch:

1. Map of Potentially Affected Areas and Airspace
2. Proposal Overview

Copy 6/21/05



Science Applications International Corporation
An Employee-Owned Company

MEMORANDUM FOR: Kathy Chapman
Coastal Sub Office
Fish and Wildlife Service
4270 Norwich Street
Brunswick, GA 31520

FROM: Science Applications International Corporation
405 S. 8th Street, Suite 301
Boise, ID 83702

SUBJECT: Shaw Air Force Base (AFB) Airspace Training Initiative

Thank you for the Service's September 17, 2004 response to the United States Air Force's (Air Force) letter requesting information regarding endangered, threatened, proposed, and candidate species related to the Air Force's proposed Airspace Training Initiative for Shaw AFB, South Carolina. The Air Force is in the process of preparing an Environmental Impact Statement (EIS) to assess the potential environmental consequences of proposed project components, including changes and additions to existing airspace in South Carolina and Georgia. Science Applications International Corporation (SAIC) is acting as the Air Force's representative on this project. We appreciate your comments on the proposed action, as well as the list of federally protected species and species of concern that you provided.

In compliance with the Endangered Species Act, the Air Force is analyzing the effects of the proposed action on listed, proposed, and candidate species in the area that may be affected by the action. Because more than 180 days have passed since you provided us with the species list, we are requesting an updated list that we may use in determining the potential impacts of the project on protected species.

Please send this information to me at the above address. We are contacting you as the contact provided in the Service's September 17 letter. We will also coordinate with you regarding further consultation with the Service, as well as for any follow-up questions we may have concerning the data you provide.

If you have additional specific items of interest about the proposal, or about consultation regarding this project, we would like to hear from you. Thank you for your assistance in this matter.

A handwritten signature in black ink, appearing to read "Kathy Strickler", with a long horizontal flourish extending to the right.

Katherine Strickler
Senior Biologist

1 Attachment
USFWS Ltr, Sep 17, 2004



United States Department of the Interior

Fish and Wildlife Service

247 South Milledge Avenue
Athens, Georgia 30605

West Georgia Sub Office
P.O. Box 52560
Ft. Benning, Georgia 31905-2560

SEP 17 2004

Coastal Sub Office
4270 Norwich Street
Brunswick, Georgia 31520

Ms. Joann M. Whitson
Chief, Environmental Analysis Branch
Department of the Air Force
HQ ACC/CEVP
129 Andrews Street, Suite 102
Langley Air Force Base, Virginia 23665-2969

Dear Ms. Whitson:

The U. S. Fish and Wildlife Service (Service) has reviewed your August 26, 2004, letter which we received on September 13, 2004 regarding training flights from Shaw Air Force Base using the Bulldog A and B Military Operations Area (MOA) in Georgia. The Bulldog MOA covers Burke, Emanuel, Glascock, Jefferson, Jenkins, Johnson and Washington Counties.

In your letter, you requested information on potential impacts to federally listed species that could occur in the Bulldog MOA. The county lists of federally listed species for the above counties can be found at our website: athens.fws.gov.

Because of the high speed jet craft which may be flying at low altitudes, we are particularly concerned about federally listed wood storks (*Mycteria americana*) and bald eagles (*Haliaeetus leucocephalus*) that nest and frequently travel in the Bulldog A and B MOA.

Wood storks are large long-legged wading birds about 33-44 inches in height with a wingspan of 59-65 inches and weigh 5-8 pounds. In Georgia, breeding usually begins in March. Incubation takes 27-32 days. Young storks begin learning to fly at about eight weeks of age. However, the young often remain at the colony and return to the nest to be fed by adults until around 12 weeks of age. Wood storks use a variety of feeding sites in both freshwater and estuarine wetlands to obtain adequate forage and fly long distances to feed and obtain food for the young.

Wood storks typically fly more like soaring hawks and vultures than like other birds, which flap their wings constantly. Although they can and do use standard flapping flight for short trips, they prefer to soar in convective currents or thermals, circling in these rising pockets of warm air to reach altitudes of 1000 – 3000 feet before gliding to their

destination or the next thermal. By soaring, storks can travel as far as 30-40 miles to reach a feeding site with low energy cost to the birds. Storks often roost in habitat similar to where they nest, such as in trees surrounded by water. However, it is also common to find flocks of storks "resting" on mud flats and on the ground near feeding sites. These sites are probably "day roosts", where the storks are waiting before starting to feed depending on changing water levels or the activity of their prey. Many species of fish are more active and "catchable" at different times of the day.

Beginning in late summer, wood storks gather into communal roost along the coast and may move out of the Bulldog MOA. According to the "Habitat Management Guidelines for the Wood Stork in the Southeast Region", there should not be any aircraft operation closer than 500 feet of a nesting colony. However, the safety of the pilots and aircraft should be considered with these large birds frequenting the Bulldog MOA from March to the late summer or early fall.

Bald eagles are 30 - 43 inches long and have a wingspan of 72-98 inches and weigh from 8-12 pounds. Bald eagles almost always nest near open water, usually in a large open-topped pine, often on high ground if available. Eagles form permanent pair bonds and use a nest year after year. In Georgia, courtship and nest-building typically occur in October and November. Two to three eggs are then laid in December or January and are incubated for about 35 days. The eaglets fledge at about 10-12 weeks. Parental care may extend 4 to 6 weeks after fledging. Adult bald eagles from Georgia are essentially non-migratory, but they might wander away from the nesting area until the next nesting season. Bald eagles from the northern United States will migrate down to Georgia in the winter. The most critical time for eagles is during nesting, which occurs in the winter.

According to the "Habitat Management Guidelines for the Bald Eagle in the Southeast Region", the Primary Zone (750 to 1,500 feet outward from the nest tree) is the most critical area for nesting eagles. Fixed wing aircraft operation within 500 feet vertical distance or 1000 feet horizontal distance from a nest would likely be detrimental while eagles are present and, therefore, should be restricted in the Primary Zone during the nesting period, but not necessarily during the non-nesting period.

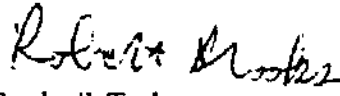
The Secondary Zone for bald eagles is from the Primary Zone to one mile. Low level aircraft operations should only take place in this zone during the non-nesting period.

According to our latest wood stork data (2003 nesting season), there were two large rookeries in Jenkins County. There is also a large wading bird rookery in Emanuel County that could contain thousands of nesting birds. Wood storks are often attracted to rookeries with other nesting wading birds. According to the 2004 eagle nesting data, Jefferson County has four active eagle nests.

This information covers the two most obvious federally listed species that could be affected by these training flights. However, the seven county lists should be used to determine if there is habitat on the ground at the one-acre training transmitter sites that could be used by any of the other federally listed species.

We appreciate the opportunity to comment on these training exercises which could occur in the Bulldog MOA. We would appreciate receiving your correspondence on Shaw Air Force Base directly to our Brunswick, Georgia office (Coastal Sub Office) to avoid delays in responding to your requests. If you have any questions or require further information, please contact staff biologist Kathy Chapman at 912-265-9336 ext. 24 or email kathy_chapman@fws.gov.

Sincerely,


for Sandra S. Tucker
Field Supervisor

cc:
FWS, Athens, Georgia

Copy 6/21/05



Science Applications International Corporation
An Employee-Owned Company

MEMORANDUM FOR: Lora Zimmerman
Fish and Wildlife Service
176 Croghan Spur Road
Suite 200
Charleston, SC 29407

FROM: Science Applications International Corporation
405 S. 8th Street, Suite 301
Boise, ID 83702

SUBJECT: Shaw Air Force Base (AFB) Airspace Training Initiative

RE: FWS Log No 4-6-04-T-502

Thank you for the Service's September 13, 2004 response to our letter requesting information regarding endangered, threatened, proposed, and candidate species related to the United States Air Force's (Air Force) proposed Airspace Training Initiative for Shaw Air Force Base (AFB), South Carolina. The Air Force is in the process of preparing an Environmental Impact Statement (EIS) to assess the potential environmental consequences of proposed project components, including changes and additions to existing airspace in South Carolina and Georgia. Science Applications International Corporation (SAIC) is acting as the Air Force's representative on this project. We appreciate your comments on the proposed action, as well as the list of federally protected species and species of concern that you provided.

In compliance with the Endangered Species Act, the Air Force is analyzing the effects of the proposed action on listed, proposed, and candidate species in the area that may be affected by the action. Because more than 180 days have passed since you provided us with the species list, we are requesting an updated list that we may use in determining the potential impacts of the project on protected species.

Please send this information to me at the above address. We are contacting you as the contact provided in the Service's September 13 letter. We will also coordinate with you regarding further consultation with the Service, as well as for any follow-up questions we may have concerning the data you provide.

If you have additional specific items of interest about the proposal, or about consultation regarding this project, we would like to hear from you. Thank you for your assistance in this matter.

A handwritten signature in black ink, appearing to read "K. Strickler", with a long horizontal flourish extending to the right.

Katherine Strickler
Senior Biologist

1 Attachment
USFWS Ltr, Sep 13, 2004



United States Department of the Interior

FISH AND WILDLIFE SERVICE
176 Croghan Spur Road, Suite 200
Charleston, South Carolina 29417

September 13, 2004

Ms Joann Whitson
HQ ACC/CEVP
129 Andrews St., Site 102
Langley AFB, VA 23665-2969

Re: Airspace Training Initiative
Shaw AFB, South Carolina
FWS Log No: 4-6-04-T-502

Dear Ms. Whitson:

The U.S. Fish and Wildlife Service (Service) has reviewed your August 26, 2004, letter requesting information regarding endangered and rare species as related to the above-referenced project. The proposed project consists of creation and modification of training airspace, development of several one-acre training transmitter sites, and use of chaff and flares in the new and modified training space. The proposed project is located on Shaw Air Force Base, Sumter County, South Carolina.

We are providing a list of federally protected species and species of concern which have the potential to occur in Sumter County to aid you in determining the impacts your project may have on protected species. This list includes known occurrences and areas where the species has a high possibility of occurring. Records are updated continually and may be different from the following. This list should be used only as a guideline, not as the final authority.

<u>Common Name</u>	<u>Scientific Name</u>	<u>Status</u>
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Shortnose sturgeon	<i>Acipenser brevirostrum</i> *	E
Canby's dropwort	<i>Oxypolis canbyi</i>	E
Chaff-seed	<i>Schwalbea americana</i>	E
Southern Dusky Salamander	<i>Desmognathus auriculatus</i>	SC
Dwarf burhead	<i>Echinodorus parvulus</i>	SC
Boykin's lobelia	<i>Lobelia boykinii</i>	SC

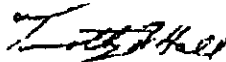
Pineland plantain	<i>Plantago sparsiflora</i>	SC
Awed meadowbeauty	<i>Rhexia aristosa</i>	SC
Biltmore greenbrier	<i>Smilax biltmoreana</i>	SC
Dachman's sparrow	<i>Aimophia aestivalis</i>	SC
Henslow's sparrow	<i>Ammodramus henslowii</i>	SC
American kestrel	<i>Falco sparverius</i>	SC
Loggerhead shrike	<i>Lanius ludovicianus</i>	SC
Painted bunting	<i>Passerina ciris ciris</i>	SC
Madtom, broadtail	<i>Noturus sp 2</i>	SC

T- Federally Threatened, E- Federally Endangered, SC- Species of Concern

Shaw Air Force Base contains suitable habitat for several of the above listed species. Prior to construction of access roads or power lines to the transmitter sites, sites should be surveyed for listed and sensitive species. The Service also urges you to consider potential impacts of airspace expansion on migratory birds.

Thank you for the opportunity to provide comments on the proposed project. If you require additional assistance, please contact Lora Zimmerman at (843) 727-4707 ext. 23. In future correspondence concerning the project, please reference FWS Log No 4-6-04-T-502.

Sincerely,



Timothy N. Hall
Field Supervisor

TNH/LLZ

Office of Planning and Budget

Sonny Perdue
Governor

Timothy A. Connell
Director

GEORGIA STATE CLEARINGHOUSE MEMORANDUM EXECUTIVE ORDER 12372 REVIEW PROCESS

TO: Linda Devine
Dept. of the Air Force
HQ ACC/CEVP
129 Andrews St., Ste 102
Langley AFB, VA 23665-2769

FROM: Barbara Jackson
Georgia State Clearinghouse

DATE: 6/24/2005

SUBJECT: Executive Order 12372 Review

PROJECT: Preparation of EA for Shaw Air Force Base Airspace Training Initiative in Existing
and Proposed Airspace in SC & GA

STATE ID: GA050531001

CFDA NO.:

The applicant is advised that the Central Savannah River RDC was included in this review but did not comment within the review period. Should they later submit comments, we will forward to you.

The applicant is advised to note comments of concern received from Heart of GA Altamaha RDC and from Georgia's Dept. of Transportation's Office of Intermodal Programs.

/bj

cc: Michele A. Fikel, Science Applications Int'l Corp.
Enc.: Heart of GA Altamaha RDC, June 20, 2005
DOT, June 20, 2005
Air Protection Branch, June 7, 2005

Form NCC
January 2004

**GEORGIA STATE CLEARINGHOUSE MEMORANDUM
EXECUTIVE ORDER 12372 REVIEW PROCESS**

TO: Barbara Jackson
Georgia State Clearinghouse
270 Washington Street, SW, Eighth Floor
Atlanta, Georgia 30334

FROM: MS. ROBIN B. NAIL *RBN*
HEART OF GA ALTAMAHA RDC

SUBJECT: Executive Order 12372 Review

APPLICANT: Dept. of the Air Force

PROJECT: Preparation of EA for Shaw Air Force Base Airspace Training Initiative in
Existing and Proposed Airspace in SC & GA

STATE ID: GA050531001

DATE: 6/20/05

- ☐ This notice is considered to be consistent with those state or regional goals, policies, plans, fiscal resources, criteria for developments of regional impact, environmental impacts, federal executive orders, acts and/or rules and regulations with which this organization is concerned.

This notice is not consistent with:

- ☒ The goals, plans, policies, or fiscal resources with which this organization is concerned. (Line through inappropriate word or words and prepare a statement that explains the rationale for the inconsistency. Additional pages may be used for outlining the inconsistencies). **See attached comment.**
- ☐ The criteria for developments of regional impact, federal executive orders, acts and/or rules and regulations administered by your agency. Negative environmental impacts or provision for protection of the environment should be pointed out. (Additional pages may be used for outlining the inconsistencies).

- ☐ This notice does not impact upon the activities of the organization.

cc: Ezra Price, Emanuel Co. Administrator
Al Lawson, Jr., Swainsboro City Administrator
Roff Sasser, Emanuel Co. Airport

Form SC-3
January 2005

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JUN 20 2005

GEORGIA
STATE CLEARINGHOUSE

GA050531001--EA for Shaw AFB Airspace Training Initiative in Existing and Proposed Airspace

The proposed project is not consistent with the Heart of Georgia Altamaha Regional Plan, nor with the Emanuel County Comprehensive Plan, both of which address the need for and importance of local airport improvements as a major factor in ongoing economic development efforts. The proposed extension of existing airspace would devastate any chance of the Emanuel County (SBO) Airport obtaining its new instrument landing system (ILS). The airport recently underwent an \$8 million renovation to situate it for this new ILS. Federal funding for its installation was approved in December, 2004, and the airport is currently waiting for the FAA to install the new system.



Robin B. Nail
Senior Planner
Heart of Georgia Altamaha RDC

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JUN 20 2005

GEORGIA
STATE CLEARINGHOUSE

GEORGIA STATE CLEARINGHOUSE MEMORANDUM
EXECUTIVE ORDER 12372 REVIEW PROCESS

TO: Barbara Jackson
Georgia State Clearinghouse
270 Washington Street, SW, Eighth Floor
Atlanta, Georgia 30334

FROM: *Hal Wilson kem*
MR. HAL WILSON
DOT OFFICE OF INTERMODAL PROGRAMS

SUBJECT: Executive Order 12372 Review

APPLICANT: Dept. of the Air Force

PROJECT: Preparation of EA for Shaw Air Force Base Airspace Training Initiative in
Existing and Proposed Airspace in SC & GA

STATE ID: GA050531001

DATE: 13 JUNE 2005

- ☐ This notice is considered to be consistent with those state or regional goals, policies, plans, fiscal resources, criteria for developments of regional impact, environmental impacts, federal executive orders, acts and/or rules and regulations with which this organization is concerned.

This notice is not consistent with:

- ☒ The goals, plans, policies, or fiscal resources with which this organization is concerned. (Line through inappropriate word or words and prepare a statement that explains the rationale for the inconsistency. Additional pages may be used for outlining the inconsistencies). *[See Two Attachments : 10/15/2004 & 01/05/2005]*
- ☐ The criteria for developments of regional impact, federal executive orders, acts and/or rules and regulations administered by your agency. Negative environmental impacts or provision for protection of the environment should be pointed out. (Additional pages may be used for outlining the inconsistencies).

- ☐ This notice does not impact upon the activities of the organization.

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JUN 20 2005

GEORGIA
STATE CLEARINGHOUSE

Form SC-3
January 2005



Department of Transportation

HAROLD E. LINNENKOHL
COMMISSIONER
(404) 656-5206

PAUL V. MULLINS
CHIEF ENGINEER
(404) 656-5277

State of Georgia
#2 Capitol Square, S.W.
Atlanta, Georgia 30334-1002

October 15, 2004

LARRY E. DENT
DEPUTY COMMISSIONER
(404) 656-5212

EARL L. MAHFUZ
TREASURER
(404) 656-5224

HQ ACC/CEVP
129 Andrews Street, Suite 102
Langley AFB, VA 23665-2769
Attn: Ms. Linda DeVine

RE: Shaw Air Force Base Airspace Training Initiative

The Georgia Department of Transportation-Aviation Programs is pleased to offer comments on the Airspace Training Initiative that Shaw Air Force Base is considering that would affect the existing Bulldog MOAs and five Georgia airports.

We are very concerned with the lack of notification the proposed changes and the outreach meetings received. The Georgia DOT-Aviation Programs, responsible for aviation matters in Georgia, received no notification and only learned of the outreach meetings through conversations with another state. The communities we subsequently contacted, all impacted by the Bulldog MOAs and the proposal, had not been notified either and were unaware of the initiative and meetings. The attendance at the Millen meeting was a direct result of our contact with the affected communities the day before the meeting.

The outreach program is the method the military has chosen to inform the public about the training initiative and to gather input from the communities about their concerns in order to identify alternatives. If the military does not adequately inform the public of the meetings, how can this be accomplished? We request the military conduct an additional series of outreach meetings in Georgia. We request the military's mailing list be updated to provide some legitimacy to the notification process. Our office can provide a mailing list of communities, airport sponsors, airspace users and other interested parties in the impacted areas.

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JUN 20 2005

GEORGIA
STATE CLEARINGHOUSE

The impact the proposed alternatives will have on five Georgia's airports and the airspace in the eastern part of the state is significant. The alternatives presented at the outreach meeting are major modifications to the existing MOAs and further restrict accessibility by public aviation to the airports and airspace in the region. The alternatives do not take into consideration changes that have occurred to these airports and traffic in the area. Since the Bulldog MOAs were established in the early 1980's, airports such as Louisville, Sandersville, and Swainsboro have undertaken aggressive airport development programs in an effort to stimulate local and regional economic development. Subsequently, millions of dollars have been spent by the state, FAA, and local governments to enhance these facilities. No alternative presented acknowledges the increased importance of these airports, their plans for future development, and their dependence on unrestricted access to the national airspace system.

We recommend an Economic Impact Study be commissioned to determine the affect of the proposed alternatives on the local economies. We are in a time when communities must aggressively pursue every opportunity to recruit new business and industry and further economic development. Airports are an integral part of the marketing package communities utilize. If a community loses full use of their airport and adequate accessibility to the national airspace system they lose a major component of their transportation infrastructure. An Economic Impact Study would assist in identifying the need for viable alternatives that would not adversely affect local economies and initiatives.

As the mission of the military has changed requiring modifications to the Bulldog MOAs, so have changes occurred in Georgia's airport system. These changes must be collectively analyzed and new alternatives developed for consideration.

As mentioned earlier, the communities of Sandersville, Swainsboro and Louisville have expended significant resources to improve their airports. With the current and future demands on these airports there must be alternative proposals that can be considered in addition to what has been presented. Alternatives would include consideration for the following:

Sandersville located on the far western boundary of Bulldog MOA, has applied to the FAA and state for funding for the installation of a localizer to provide improved instrument landing capability into the airport. Consideration should be given to modifying the western boundary of Bulldog A to exclude Sandersville and the airport's airspace.

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STATE CLEARINGHOUSE

Swainsboro located along the southern boundary of Bulldog B is in the final phase of completing a nearly \$10 million expansion to its airport. Recent improvements to the airport include a runway extension to 6,000 feet, construction of a full parallel taxiway, aircraft parking apron, terminal building and corporate hangars and they are presently slated to install a full Instrument Landing System (ILS). The new floor proposed for Bulldog B around Swainsboro will be reduced from 10,000' to 500' above the ground effectively closing the airport to IFR operations. Additional negative impacts include those to commercial operations that currently depend on full-time instrument access to the airport. Alternatives for Bulldog airspace should include changes to the existing MOA boundary to remove Swainsboro from Bulldog to accommodate their growth and future instrument capability.

Louisville is identified as a Regional Airport in the state airport system. During the last four years more than \$3 million in state, federal and local funds have been used to extend the runway and make other airport improvements to promote and encourage economic development. Louisville is presently working with the state and FAA to secure an instrument approach procedure into their airport. Our office has committed to fund the installation of a Localizer at this airport. Louisville is under Bulldog A and the current proposal would be no change to their existing situation. However, modifications to the existing Bulldog A airspace should be considered to provide IFR corridors to allow access to Louisville. The restrictions of the current airspace and the inability of IFR traffic to traverse Bulldog is a serious issue. This problem will be compounded for Louisville with the establishment of an instrument approach. The continued development and expansion of the Louisville airport and the need to assess it requires that the airspace dedicated to Bulldog A and the procedures for it use be reevaluated.

Other airports impacted by Bulldog and the current initiative include those located in Waynesboro and Millen. Both communities have general aviation facilities that are pursuing expansion and development. These airports will be negatively impacted by the proposals presented at the outreach meeting. Alternatives must be examined that will allow for the growth and development of these airports and communities.

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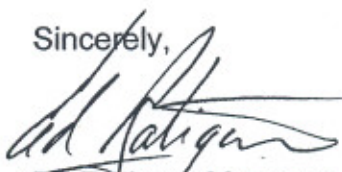
GEORGIA
STATE CLEARINGHOUSE

The State of Georgia is a strong supporter of the military. However, we are concerned with the very flawed beginning of this airspace initiative to change the Bulldog MOAs. We request the military make a realistic effort to gather public input and conduct additional outreach meetings at communities impacted by the Bulldog MOAs. We request that consideration be given to developing and presenting additional alternatives that would address the negative impacts for our five Georgia airports while still serving the training needs of the military.

We are all very aware of the reevaluation of military bases that will be addressed in 2005 by the Base Realignment and Closure (BRAC) Commission. There will be changes throughout the nation for the military including base closures and a shifting of units and missions to other facilities. We question the need to begin the process of expanding the Bulldog MOAs when the mission of Shaw AFB and others may change in the near future. We recommend that any action to modify Bulldog A and B be deferred until after the BRAC review is completed and the new missions and needs of the military bases are determined.

Please contact me at (404) 651-9221, if our office can be of assistance. We look forward to hearing from you.

Sincerely,



Ed Ratigan, Manager
Aviation Programs

cc: The Honorable Zell Miller, U.S. Senator
The Honorable Saxby Chambliss, U.S. Senator
The Honorable Max Burns, U.S. Congressman
The Honorable Jim Marshall, U.S. Congressman
The Honorable Jack Hill, State Senator
The Honorable Hugh Gills, Sr., State Senator
The Honorable Don Cheeks, State Senator
The Honorable Alberta Anderson, State Representative
The Honorable Larry Parrish, State Representative
The Honorable D. Byron Burt, Mayor, City of Louisville
Don Rhodes, City Manager, City of Louisville
Tom Watson, Louisville Airport Committee
The Honorable Albert Rocker, Mayor, City of Millen

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JUN 20 2005

GEORGIA
STATE CLEARINGHOUSE

cc: The Honorable James Henry, Chairman, Jenkins County Commission
Carol Cates, County Administrator, Jenkins County
Keith Brock, Millen Airport Committee
The Honorable Horace Daniel, Chairman, Washington Co. Commission
The Honorable Jimmy Andrews, Mayor, City of Sandersville
Lawrence Mathis, Chairman, Washington County Airport Authority
The Honorable David Oglesby, Chairman, Emanuel County Commission
The Honorable Ricky Stevens, Mayor, City of Swainsboro
Al Lawson, City Administrator, City of Swainsboro
Ezra Price, County Administrator, Emanuel County
Ken Warnock, Chairman, Swainsboro-Emanuel Co. Airport Commission
The Honorable James Dixon, Chairman, Burke County Commission
The Honorable Jesse Stone, Mayor, City of Waynesboro
Merv Waldrop, County Administrator, Burke County
The Honorable Dollye Ward, Mayor, City of Wrens
The Honorable Gardner Hobbs, Chairman, Jefferson County Commission
Barbara Jackson, Georgia State Clearinghouse
Ray Luce, Georgia Department of Natural Resources-SHPO
Jimmy Johnston, Georgia Department of Natural Resources-EPD

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GEORGIA
STATE CLEARINGHOUSE



Department of Transportation

HAROLD E. LINNENKOHL
COMMISSIONER
(404) 656-5206

PAUL V. MULLINS
CHIEF ENGINEER
(404) 656-5277

State of Georgia
#2 Capitol Square, S.W.
Atlanta, Georgia 30334-1002

January 5, 2005

LARRY E. DENT
DEPUTY COMMISSIONER
(404) 656-5212

EARL L. MAHFUZ
TREASURER
(404) 656-5224

HQ ACC/CEVP
129 Andrews Street, Suite 102
Langley AFB, VA 23665-2769
Attn: Ms. Linda DeVine

RE: Shaw Air Force Base Airspace Training Initiative

The Georgia Department of Transportation – Aviation Programs is pleased to offer comments on the Shaw Air Force Base Airspace Training Initiative during this extended scoping period.

We have serious concerns regarding the proposed changes to the Bulldog MOA's. Our letter of October 15, 2004 outlines many of our concerns and we expect those concerns to be considered in the scoping and addressed in the proposed Environmental Impact Statement (EIS).

The notification process for this initiative has been flawed. In addition to earlier concerns, we now understand the Georgia State Clearinghouse has not been informed of this airspace effort. No information has been provided to the Clearinghouse for their circularization to other state agencies and interested parties. We were assured at the community outreach meetings that the State Clearinghouse had this information and that you were relying on them to disseminate the information. Based on conversations with the State Clearinghouse as recently as yesterday, they have not received information on this initiative. Communication on the proposal has been less than adequate and we request the process be delayed until adequate dissemination of the proposal can be made.

We are concerned about the proposed airspace initiative's impact on Georgia's airports. Alternatives should be identified and examined that will not impact the existing airports underlying Bulldog. These communities have expended significant resources to improve their airports to stimulate local and regional economic development. No alternatives have been explored that recognizes the importance of these airports and how the military could accommodate them and

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still satisfy their mission. There are airports near the boundaries of Bulldog that could be eliminated from the MOA. Swainsboro and Sandersville are two communities that have made substantial investments in their airports. In addition to expansion of their airport, Swainsboro has been identified to receive an ILS (Instrument Landing System) and Sandersville will be installing a Localizer. Any alteration of Bulldog airspace should include the elimination of these airports from the MOA. Other airports within the existing MOA are expanding and need full access through Bulldog for both VFR and IFR traffic. Alternatives should consider modifications to Bulldog airspace or the establishment of procedures that will accommodate traffic into these communities.

We request an Economic Impact Study be accomplished to determine the impact the proposed airspace initiative will have on the areas communities. The proposed initiative will be detrimental to aircraft operations and the usability of airports within and adjacent to the Bulldog airspace. Losing full use of part of their transportation infrastructure will have an impact on the local economies. A study to identify these impacts and the impacts of alternative airspace alignments would be beneficial to the evaluation process.

The proposed expansion of Bulldog impacts a Victor Airway (V-70) that transverses Bulldog B. This is a major access route around Bulldog A that will either be eliminated or restricted under this proposal. What is the impact of this initiative on this airway? How will traffic be accommodated?

An issue we raised in our previous comments concern the need for the expansion of Bulldog. What is the present and historic usage of the existing Bulldog MOA's? What is the usage for other military airspace that could conceivable accommodate the proposed mission? What is the military's requirement for training that requires this modification to Bulldog airspace?

Noise is a major concern. The proposal lowers the floor of airspace in Bulldog B to 500 feet above ground. How do you propose to address the noise issue? Existing problems in Bulldog A, with the same floor, have gone unresolved for years. The military has not had an answer to or is unwilling to address this existing problem. What will change under this proposal? How will noise conflicts be resolved? Noise is a factor of fleet, altitude, time of day, and usage levels. What is the proposed usage of the airspace and what supporting data will be used to determine noise impacts?

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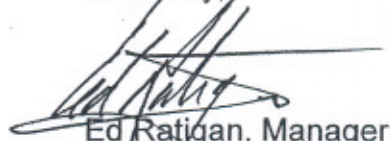
GEORGIA
STATE CLEARINGHOUSE

There has not been any detailed information on the proposed use of training flares and chaff in this airspace. Our concerns would include the potential impact on residential areas, farmland, timber areas and wildlife areas that underlie the MOA. What is being proposed that would preclude any incident on the ground or impact to the environment?

The state would like to be a consulting party to the EIS. We believe that the issues we raised should be addressed and that it would be in the best interest of all parties for the state to be an active participant in the process. I would also request a written response to the questions and issues we have raised here and in our letter of October 15, 2004.

We appreciate the opportunity to comment on this initiative and look forward to hearing from you. Please contact me at (404) 651-9221 if my office can be of any assistance.

Sincerely,



Ed Ratigan, Manager
Aviation Programs

cc: The Honorable Saxby Chambliss, U.S. Senator
The Honorable Johnny Isakson, U.S. Senator
The Honorable John Barrow, U.S. Congressman
The Honorable Jim Marshall, U.S. Congressman
The Honorable Jack Hill, State Senator
The Honorable Hugh Gills, Sr., State Senator
The Honorable Don Cheeks, State Senator
The Honorable Alberta Anderson, State Representative
The Honorable Larry Parrish, State Representative
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Don Rhodes, City Manager, City of Louisville
Tom Watson, Louisville Airport Committee
The Honorable Albert Rocker, Mayor, City of Millen

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GEORGIA
STATE CLEARINGHOUSE

cc: The Honorable James Henry, Chairman, Jenkins County Commission
Carol Cates, County Administrator, Jenkins County
Keith Brock, Millen Airport Committee
The Honorable Horace Daniel, Chairman, Washington Co. Commission
The Honorable Jimmy Andrews, Mayor, City of Sandersville
Lawrence Mathis, Chairman, Washington County Airport Authority
The Honorable David Oglesby, Chairman, Emanuel County Commission
The Honorable Ricky Stevens, Mayor, City of Swainsboro
Al Lawson, City Administrator, City of Swainsboro
Ezra Price, County Administrator, Emanuel County
Ken Warnock, Chairman, Swainsboro-Emanuel Co. Airport Commission
The Honorable James Dixon, Chairman, Burke County Commission
The Honorable Jesse Stone, Mayor, City of Waynesboro
Merv Waldrop, County Administrator, Burke County
The Honorable Dollye Ward, Mayor, City of Wrens
The Honorable Gardner Hobbs, Chairman, Jefferson County Commission
Barbara Jackson, Georgia State Clearinghouse
Ray Luce, Georgia Department of Natural Resources-SHPO
Jimmy Johnston, Georgia Department of Natural Resources-EPD

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JUN 20 2005

GEORGIA
STATE CLEARINGHOUSE

GEORGIA STATE CLEARINGHOUSE MEMORANDUM
EXECUTIVE ORDER 12372 REVIEW PROCESS

TO: Barbara Jackson
Georgia State Clearinghouse
270 Washington Street, SW, Eighth Floor
Atlanta, Georgia 30334

FROM: MR. RON METHIER
AIR PROTECTION BRANCH

SUBJECT: Executive Order 12372 Review

APPLICANT: Dept. of the Air Force

PROJECT: Preparation of EA for Shaw Air Force Base Airspace Training Initiative in
Existing and Proposed Airspace in SC & GA

STATE ID: GA050531001

DATE:

*D. Marder
6/6/05*



This notice is considered to be consistent with those state or regional goals, policies, plans, fiscal resources, criteria for developments of regional impact, environmental impacts, federal executive orders, acts and/or rules and regulations with which this organization is concerned.

This notice is not consistent with:

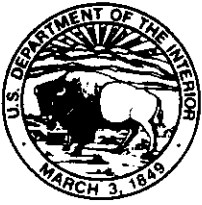
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- ☐ This notice does not impact upon the activities of the organization.

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GEORGIA
STATE CLEARINGHOUSE

Form SC-3
January 2005



United States Department of the Interior

FISH AND WILDLIFE SERVICE

176 Croghan Spur Road, Suite 200
Charleston, South Carolina 29407

July 14, 2005

Ms. Katherine Strickler
Science Applications International Corporation
405 S. 8th Street, Suite 301
Boise, ID 83702

Re: Airspace Training Initiative
Shaw AFB, South Carolina
FWS Log No: 4-6-04-T-502

Dear Ms. Strickler:

The U.S. Fish and Wildlife Service (Service) is pleased to respond to your June 22, 2005, letter requesting an updated list of endangered and rare species in the vicinity of Shaw Air Force Base, Sumter County, South Carolina.

We are providing a list of federally protected species and species of concern which have the potential to occur in Sumter County to aid you in determining the impacts your project may have on protected species. This list includes known occurrences and areas where the species has a high possibility of occurring. Records are updated continually and may be different from the following. This list should be used only as a guideline, not as the final authority.


<u>Common Name</u>	<u>Scientific Name</u>	<u>Status</u>
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Shortnose sturgeon	<i>Acipenser brevirostrum*</i>	E
Canby's dropwort	<i>Oxypolis canbyi</i>	E
Chaff-seed	<i>Schwalbea americana</i>	E
American eel	<i>Anguilla rostrata</i>	SC
Southern Dusky Salamander	<i>Desmognathus auriculatus</i>	SC
Dwarf burhead	<i>Echinodorus parvulus</i>	SC
Boykin's lobelia	<i>Lobelia boykinii</i>	SC
Pineland plantain	<i>Plantago sparsiflora</i>	SC
Awed meadowbeauty	<i>Rhexia aristosa</i>	SC

Biltmore greenbrier	Smilax biltmoreana	SC
Bachman's sparrow	Aimophia aestivalis	SC
Henslow's sparrow	Ammodramus henslowii	SC
American kestrel	Falco sparverius	SC
Loggerhead shrike	Lanius ludovicianus	SC
Painted bunting	Passerina ciris ciris	SC
Madtom, broadtail	Noturus sp 2	SC
Rafinesque's big-eared bat	Corynorhinus rafinesquii	SC

T- Federally Threatened, E- Federally Endangered, SC- Species of Concern

Thank you for the opportunity to provide information for the proposed project. If you require additional assistance, please contact Lora Zimmerman at (843) 727-4707 ext. 226. In future correspondence concerning the project, please reference FWS Log No 4-6-04-T-502.

Sincerely,



Timothy N. Hall
Field Supervisor

TNH/LLZ



United States Department of the Interior

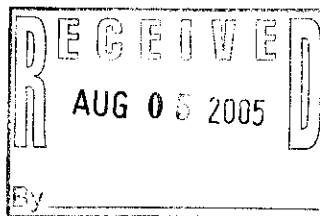
U.S. FISH AND WILDLIFE SERVICE

247 South Milledge Avenue
Athens, Georgia 30605

West Georgia Sub Office
P.O. Box 52560
Ft. Benning, Georgia 31995-2560

Coastal Sub Office
4270 Norwich Street
Brunswick, Georgia 31520

Ms. Katherine Strickler
Science Applications International Corporation
405 S. 8th Street, Suite 301
Boise, ID 83702



Re: FWS Log # 05-0457

Dear Ms. Strickler:

This responds to your memorandum which we received June 22, 2005 regarding the Shaw Air Force Base Airspace Training Initiative. One of the alternatives is to use the Bulldog A and B Military Operations Area (MOA) in Georgia. The Bulldog MOA covers Burke, Emanuel, Glascock, Jefferson, Jenkins, Johnson and Washington Counties in Georgia. Enclosed are our most recent protected species lists for these counties.

As stated in our September 17, 2004 letter, we are most concerned about federally listed wood storks (*Mycteria americana*) and bald eagles (*Haliaeetus leucocephalus*) because of the high speed jet craft which may be flying at low altitudes.

According to our latest wood stork data, there are still two large wood stork rookeries in **Jenkins County**. Their latitude/longitude locations (for military use only) are 32 51.40/82 02.42 and 32 49.76/82 05.92. According to the "Habitat Management Guidelines for the Wood Stork in the Southeast Region", there should not be any aircraft operation closer than 500 feet of a nesting colony. From March to the late summer or early fall, the safety of the birds, as well as, the pilots and aircraft should be considered in deciding whether the Bulldog MOA should be used.


There are now six (6) bald eagle nests in **Jefferson County**. The most critical time for eagles is during nesting, which occurs in the winter. In Georgia, courtship and nest-building typically occur in October and November. Two or three eggs are laid in December or January and are incubated for about 35 days. The eaglets fledge in about 10-12 weeks. According to the "Habitat Management Guidelines for the Bald Eagle in the Southeast Region", the Primary Zone (750 to 1,500 feet outward from the nest tree) is the most critical area for nesting eagles. Fixed wing aircraft operation within 500 feet vertical distance or 1000 feet horizontal distance from a nest would likely be detrimental while eagles are present and, therefore, should be restricted in the Primary Zone during the nesting period, but not necessarily during the non-nesting period.

There is a proposal to delist bald eagles, however, the birds will remain protected under the Bald and Golden Eagle Protection Act (BGEPA). Along with the delisting package under review, there will be new bald eagle guidelines under the BGEPA. You may want to contact us closer to the time for your project to begin to see if these have been finalized.

As stated in our September 17, 2004 letter, these are the two most obvious federally listed species that could be affected by these training flights. However, the seven county lists should be used to determine if there is habitat on the ground at the one-acre training transmitter sites that could be used by any of the other federally listed species.

We appreciate the opportunity to comment on these training exercises which could occur in the Bulldog MOA. If you have any question or require further information, please contact staff biologist Kathy Chapman of the Coastal Sub Office at 912-265-9336 ext. 24 or email kathy_chapman@fws.gov.

Sincerely,


for Sandra S. Tucker
Field Supervisor

Enclosures

cc:

FWS, Athens, Georgia

Listed Species in Burke County (updated May 2004)				
Species	Federal Status	State Status	Habitat	Threats
Bird				
Bald eagle <i>Haliaeetus leucocephalus</i>	T	E	Inland waterways and estuarine areas in Georgia.	Major factor in initial decline was lowered reproductive success following use of DDT. Current threats include habitat destruction, disturbance at the nest, illegal shooting, electrocution, impact injuries, and lead poisoning.
Red-cockaded woodpecker <i>Picoides borealis</i>	E	E	Nest in mature pine with low understory vegetation (<1.5m); forage in pine and pine hardwood stands > 30 years of age, preferably > 10" dbh	Reduction of older age pine stands and encroachment of hardwood midstory in older age pine stands due to fire suppression
Wood stork <i>Mycteria americana</i>	E	E	Primarily feed in fresh and brackish wetlands and nest in cypress or other wooded swamps	Decline due primarily to loss of suitable feeding habitat, particularly in south Florida. Other factors include loss of nesting habitat, prolonged drought/flooding, raccoon predation on nests, and human disturbance of rookeries.
Reptile				
Gopher tortoise <i>Gopherus polyphemus</i>	No Federal Status	T	Well-drained, sandy soils in forest and grassy areas; associated with pine overstory, open understory with grass and forb groundcover, and sunny areas for nesting	Habitat loss and conversion to closed canopy forests. Other threats include mortality on highways and the collection of tortoises for pets.
Amphibian				
Flatwoods salamander <i>Ambystoma cingulatum</i>	T	T	Adults and subadults are fossorial; found in open mesic pine/wiregrass flatwoods dominated by longleaf or slash pine and maintained by frequent fire. During breeding period, which coincides with heavy rains from Oct.-Dec., move to isolated, shallow, small, depressions (forested with emergent vegetation) that dry completely on a cyclic basis. Last breeding record for Burke County was in the 1940's.	Habitat destruction as a result of agricultural and silvicultural practices (e.g., clearcutting, mechanical site preparation), fire suppression and residential and commercial development.
Invertebrate				
Atlantic pigtoe mussel <i>Fusconaia masoni</i>	No Federal Status	E	Found in unpolluted, fast-flowing water in coarse sand/gravel substrate.	
Fish				
Shortnose sturgeon¹ <i>Acipenser brevirostrum</i>	E	E	Atlantic seaboard rivers	Construction of dams and pollution, habitat alterations from discharges, dredging or disposal of material into rivers, and related development activities.
Plant				
Canby's dropwort <i>Oxypolis canbyi</i>	E	E	Peaty muck of shallow cypress ponds, wet pine savannahs, and adjacent sloughs and drainage ditches	Loss or alteration of wetland habitats
Georgia plume	No Federal	T	Sand ridges, dry oak ridges, evergreen hammocks, and sandstone outcrops in a variety	

<i>Elliottia racemosa</i>	Status		of sandy soil conditions ranging from moist to very dry
Indian olive <i>Nestronia umbellula</i>	No Federal Status	T	Dry open upland forests of mixed hardwood and pine
Ocmulgee skullcap <i>Scutellaria ocmulgee</i>	No Federal Status	T	Forested terraces, hardwood slopes and riverbanks of tributaries to the Ocmulgee, Oconee, and Savannah Rivers
Rosemary <i>Ceratiola ericoides</i>	No Federal Status	T	Driest, openly vegetated, scrub oak sandhills and river dunes with deep white sands of the Kershaw soil series
Sweet pitcher-plant <i>Sarracenia rubra</i>	No Federal Status	E	Acid soils of open bogs, sandhill seeps, Atlantic white-cedar swamps, wet savannahs, low areas in pine flatwoods, and along sloughs and ditches

¹This species is the responsibility of the National Marine Fisheries Service.

Listed Species in Emanuel County (updated May 2004)				
Species	Federal Status	State Status	Habitat	Threats
Bird				
Bald eagle <i>Haliaeetus leucocephalus</i>	T	E	Inland waterways and estuarine areas in Georgia.	Major factor in initial decline was lowered reproductive success following use of DDT. Current threats include habitat destruction, disturbance at the nest, illegal shooting, electrocution, impact injuries, and lead poisoning.
Red-cockaded woodpecker <i>Picoides borealis</i>	E	E	Nest in mature pine with low understory vegetation (<1.5m); forage in pine and pine hardwood stands > 30 years of age, preferably > 10" dbh	Reduction of older age pine stands and encroachment of hardwood midstory in older age pine stands due to fire suppression
Wood stork <i>Mycteria americana</i>	E	E	Primarily feed in fresh and brackish wetlands and nest in cypress or other wooded swamps	Decline due primarily to loss of suitable feeding habitat, particularly in south Florida. Other factors include loss of nesting habitat, prolonged drought/flooding, raccoon predation on nests, and human disturbance of rookeries.
Reptile				
Eastern indigo snake <i>Drymarchon corais couperi</i>	T	T	During winter, den in xeric sandridge habitat preferred by gopher tortoises; during warm months, forage in creek bottoms, upland forests, and agricultural fields	Habitat loss due to uses such as farming, construction, forestry, and pasture and to overcollecting for the pet trade
Gopher tortoise <i>Gopherus polyphemus</i>	No Federal Status	T	Well-drained, sandy soils in forest and grassy areas; associated with pine overstory, open understory with grass and forb groundcover, and sunny areas for nesting	Habitat loss and conversion to closed canopy forests. Other threats include mortality on highways and the collection of tortoises for pets.
Amphibian				
Flatwoods salamander <i>Ambystoma cingulatum</i>	T	T	Adults and subadults are fossorial; found in open mesic pine/wiregrass flatwoods dominated by longleaf or slash pine and maintained by frequent fire. During breeding period, which coincides with heavy rains from Oct.-Dec., move to isolated, shallow, small, depressions (forested with emergent vegetation) that dry completely on a cyclic basis. Last breeding record for Emanuel County was in the 1940s.	Habitat destruction as a result of agricultural and silvicultural practices (e.g., clearcutting, mechanical site preparation), fire suppression and residential and commercial development.
Plant				
Dwarf witch-alder <i>Fothergilla gardenii</i>	No Federal Status	T	Low, flat, swampy areas, especially shrub-dominated margins of upland swamps (pocosins), Carolina bays, pitcherplant bogs, wet savannahs, and Atlantic white-cedar swamps	
Georgia plume <i>Elliottia racemosa</i>	No Federal Status	T	Sand ridges, dry oak ridges, evergreen hammocks, and sandstone outcrops in a variety of sandy soil conditions ranging from moist to very dry	
Indian olive <i>Nestronia umbellula</i>	No Federal Status	T	Dry open upland forests of mixed hardwood and pine	
Parrot pitcher-plant	No Federal	T	Acid soils of open bogs, wet savannahs, and low areas in pine flatwoods	

Status			
<i>Sarracenia psittacina</i>			
Pickering's morning-glory	No Federal Status	T	Coarse white sands on sandhills near the Fall Line and on a few ancient dunes along the Flint and Ochopee Rivers
<i>Stylisma pickeringii</i>			
Rosemary	No Federal Status	T	Driest, openly vegetated, scrub oak sandhills and river dunes with deep white sands of the Kershaw soil series
<i>Ceratiola ericoides</i>			
Sweet pitcher-plant	No Federal Status	E	Acid soils of open bogs, sandhill seeps, Atlantic white-cedar swamps, wet savannahs, low areas in pine flatwoods, and along sloughs and ditches
<i>Sarracenia rubra</i>			

Listed Species in Glascocock County (updated May 2004)				
Species	Federal Status	State Status	Habitat	Threats
Bird				
Bald eagle <i>Haliaeetus leucocephalus</i>	T	E	Inland waterways and estuarine areas in Georgia	Major factor in initial decline was lowered reproductive success following use of DDT. Current threats include habitat destruction, disturbance at the nest, illegal shooting, electrocution, impact injuries, and lead poisoning.

Listed Species in Jefferson County (updated May 2004)				
Species	Federal Status	State Status	Habitat	Threats
Bird				
Bald eagle <i>Haliaeetus leucocephalus</i>	T	E	Inland waterways and estuarine areas in Georgia. An active bald eagle nest was located in Jefferson County in 1999 and 2002.	Major factor in initial decline was lowered reproductive success following use of DDT. Current threats include habitat destruction, disturbance at the nest, illegal shooting, electrocution, impact injuries, and lead poisoning.
Red-cockaded woodpecker <i>Picoides borealis</i>	E	E	Nest in mature pine with low understory vegetation (<1.5m); forage in pine and pine hardwood stands > 30 years of age, preferably > 10" dbh	Reduction of older age pine stands and encroachment of hardwood midstory in older age pine stands due to fire suppression
Wood stork <i>Mycteria americana</i>	E	E	Primarily feed in fresh and brackish wetlands and nest in cypress or other wooded swamps	Decline due primarily to loss of suitable feeding habitat, particularly in south Florida. Other factors include loss of nesting habitat, prolonged drought/flooding, raccoon predation on nests, and human disturbance of rookeries.
Reptile				
Gopher tortoise <i>Gopherus polyphemus</i>	No Federal Status	T	Well-drained, sandy soils in forest and grassy areas; associated with pine overstory, open understory with grass and forb groundcover, and sunny areas for nesting	Habitat loss and conversion to closed canopy forests. Other threats include mortality on highways and the collection of tortoises for pets.
Amphibian				
Flatwoods salamander <i>Ambystoma cingulatum</i>	T	T	Adults and subadults are fossorial; found in open mesic pine/wiregrass flatwoods dominated by longleaf or slash pine and maintained by frequent fire. During breeding period, which coincides with heavy rains from Oct.-Dec., move to isolated, shallow, small, depressions (forested with emergent vegetation) that dry completely on a cyclic basis. Found in Jefferson County October 1997	Habitat destruction as a result of agricultural and silvicultural practices (e.g., clearcutting, mechanical site preparation), fire suppression and residential and commercial development.
Invertebrate				
Atlantic pigtoe mussel <i>Fusconaia masoni</i>	No Federal Status	E	Found in unpolluted, fast-flowing water in coarse sand/gravel substrate.	
Plant				
Indian olive <i>Nestronia umbellula</i>	No Federal Status	T	Dry open upland forests of mixed hardwood and pine	
Sweet pitcher-plant <i>Sarracenia rubra</i>	No Federal Status	E	Acid soils of open bogs, sandhill seeps, Atlantic white-cedar swamps, wet savannahs, low areas in pine flatwoods, and along sloughs and ditches	

Listed Species in Jenkins County (updated May 2004)				
Species	Federal Status	State Status	Habitat	Threats
Bird				
Bald eagle <i>Haliaeetus leucocephalus</i>	T	E	Inland waterways and estuarine areas in Georgia.	Major factor in initial decline was lowered reproductive success following use of DDT. Current threats include habitat destruction, disturbance at the nest, illegal shooting, electrocution, impact injuries, and lead poisoning.
Red-cockaded woodpecker <i>Picoides borealis</i>	E	E	Nest in mature pine with low understory vegetation (<1.5m); forage in pine and pine hardwood stands > 30 years of age, preferably > 10" dbh	Reduction of older age pine stands and encroachment of hardwood midstory in older age pine stands due to fire suppression
Wood stork <i>Mycteria americana</i>	E	E	Primarily feed in fresh and brackish wetlands and nest in cypress or other wooded swamps. Active rookeries were located in Jenkins County 1991-2002.	Decline due primarily to loss of suitable feeding habitat, particularly in south Florida. Other factors include loss of nesting habitat, prolonged drought/flooding, raccoon predation on nests, and human disturbance of rookeries.
Reptile				
Eastern indigo snake <i>Drymarchon corais couperi</i>	T	T	During winter, den in xeric sandridge habitat preferred by gopher tortoises; during warm months, forage in creek bottoms, upland forests, and agricultural fields	Habitat loss due to uses such as farming, construction, forestry, and pasture and to overcollecting for the pet trade
Gopher tortoise <i>Gopherus polyphemus</i>	No Federal Status	T	Well-drained, sandy soils in forest and grassy areas; associated with pine overstory, open understory with grass and forb groundcover, and sunny areas for nesting	Habitat loss and conversion to closed canopy forests. Other threats include mortality on highways and the collection of tortoises for pets.
Invertebrate				
Atlantic pigtoe mussel <i>Fusconaia masoni</i>	No Federal Status	E	Found in unpolluted, fast-flowing water in coarse sand/gravel substrate.	
Plant				
Canby's dropwort <i>Oxypolis canbyi</i>	E	E	Peaty muck of shallow cypress ponds, wet pine savannahs, and adjacent sloughs and drainage ditches	Loss or alteration of wetland habitats

Listed Species in Johnson County (updated May 2004)				
Species	Federal Status	State Status	Habitat	Threats
Bird				
Bald eagle <i>Haliaeetus leucocephalus</i>	T	E	Inland waterways and estuarine areas in Georgia.	Major factor in initial decline was lowered reproductive success following use of DDT. Current threats include habitat destruction, disturbance at the nest, illegal shooting, electrocution, impact injuries, and lead poisoning.
Red-cockaded woodpecker <i>Picoides borealis</i>	E	E	Nest in mature pine with low understory vegetation (<1.5m); forage in pine and pine hardwood stands > 30 years of age, preferably > 10" dbh	Reduction of older age pine stands and encroachment of hardwood midstory in older age pine stands due to fire suppression
Wood stork <i>Mycteria americana</i>	E	E	Primarily feed in fresh and brackish wetlands and nest in cypress or other wooded swamps	Decline due primarily to loss of suitable feeding habitat, particularly in south Florida. Other factors include loss of nesting habitat, prolonged drought/flooding, raccoon predation on nests, and human disturbance of rookeries.
Reptile				
Gopher tortoise <i>Gopherus polyphemus</i>	No Federal Status	T	Well-drained, sandy soils in forest and grassy areas; associated with pine overstory, open understory with grass and forb groundcover, and sunny areas for nesting	Habitat loss and conversion to closed canopy forests. Other threats include mortality on highways and the collection of tortoises for pets.
Fish				
Robust redhorse <i>Moxostoma robustum</i>	No Federal Status	E	Medium to large rivers with shallow to deep flowing moderately swift water.	

Listed Species in Washington County (updated May 2004)				
Species	Federal Status	State Status	Habitat	Threats
Bird				
Bald eagle <i>Haliaeetus leucocephalus</i>	T	E	Inland waterways and estuarine areas in Georgia.	Major factor in initial decline was lowered reproductive success following use of DDT. Current threats include habitat destruction, disturbance at the nest, illegal shooting, electrocution, impact injuries, and lead poisoning.
Red-cockaded woodpecker <i>Picoides borealis</i>	E	E	Nest in mature pine with low understory vegetation (<1.5m); forage in pine and pine hardwood stands > 30 years of age, preferably > 10" dbh	Reduction of older age pine stands and encroachment of hardwood midstory in older age pine stands due to fire suppression
Fish				
Robust redhorse <i>Moxostoma robustum</i>	No Federal Status	E	Medium to large rivers with shallow to deep flowing moderately swift water.	
Plant				
Bay star-vine <i>Schisandra glabra</i>	No Federal Status	T	Twining on subcanopy and understory trees/shrubs in rich alluvial woods	
Harper dodder <i>Cuscuta harperi</i>	No Federal Status	T	Parasite usually found on rayless-goldenrod (<i>Chondrophora virgata</i>); rarely parasitic on other herbs found on granite or sandstone outcrops	

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Manning, SC 29102-3209

Georgetown County Library
405 Cleland Street
Georgetown, SC 29440

Horry County Library
1008 Fifth Avenue
Conway, SC 29526-4354

Sumter County Library
111 North Harvin Street
Sumter, SC 29150-4688

Richland County Public Library
1431 Assembly St.
Columbia, SC 29201

Florence County Library
509 South Dargan St.
Florence, SC 29506-2549

Marion County Library
101 E. Court St.
Marion, SC 29571

Berkeley County Library
100 Library St.
Moncks Corner, SC 29461-2326

Lake City Public Library
211 E. Main St.
Lake City, SC 29560

Chapin Memorial Library
400 14th Ave. North
Myrtle Beach, SC 29577

Charleston County Library
68 Calhoun St.
Charleston, SC 29401

Georgia

Oconee Regional Library
801 Bellevue Avenue
Dublin, GA 31021-4847

Statesboro Regional Library
124 South Main Street
Statesboro, GA 30458-5246

East Central Georgia Regional Library
902 Greene Street
Augusta, GA 30901-2294

Jenkins County Memorial Library
223 Daniel St.
Millen, GA 30442

Jefferson County Library
306 E. Broad St.
Louisville, GA 30434

East Georgia College Library
131 College Circle
Swainsboro, GA 30401

Burke County Library
412 4th St.
Waynesboro, GA 30830

Rosa M. Tarbutton Memorial Library
314 S. Harris St.
Sandersville, GA 31082

